



المجلس الإسلامي الأمريكي للغذاء و التغذية

THE ISLAMIC FOOD AND NUTRITION COUNCIL OF AMERICA

IFANCA HALAL PRODUCT CERTIFICATE شهادة حلال

This is to certify that the following product(s) have been produced under the supervision of the Islamic Food and Nutrition Council of America (IFANCA). The production facility as well as component ingredients have been reviewed and approved. The product(s) are in compliance with the halal requirements under Islamic laws.

Date: July 23, 2024

Document #: 4739.15720.II240011

Company Name & Address: **Sigma-Aldrich Corporation** 6000 N. Teutonia Avenue Milwaukee, Wisconsin 53209 USA

Plant Name & Address: **Aldrich Chemical Company, LLC** 5485 County Road V Sheboygan Falls, Wisconsin 53085 USA

Product Name	Product Code	Halal-ID	Product Certificate #
1. (-)-ALPHA-PINENE 97%, FCC	W290203	A22863	HC-24SI8Q24
2. (-)-BETA-PINENE 97%, FCC, FG	W290300	A71020	HC-24SIF348
3. (-)-BORNYL ACETATE 95%	W408001	A73150	HC-24SIBU59
4. (-)-b-PINENE NATURAL	W290315	D12698	HC-24SI7N50
5. (-)-CARVYL ACETATE MIXTURE OF CIS AND TRANS, 98%, FCC, FG	W225002	B41519	HC-24SI3L51
6. (-)-ISOPULEGOL, 98%	W296236	A94478	HC-24SI6I04
7. (+)-GAMMA-DECALACTONE NATURAL, 97%, FG	W236012	B12978	HC-24SI2H60
8. (+/-)-2-METHYLBUTYRIC ACID NATURAL, 98%, FG	W269514	A75140	HC-24SI6776
9. (+/-)-4-METHYLOCTANOIC ACID 98%, FG	W357502	B64707	HC-24SIA818
10. (+/-)-CITRONELLAL	W230707	C42588	HC-24SIP327
11. (+/-)-TETRAHYDROFURFURYL PROPIONATE 96%	W305805	A50087	HC-24SIKC04

Muhammad Munir Chaudry

Muhammad Munir Chaudry, Ph.D.
President



This certificate is valid until **July 31, 2025** and subject to renewal at that time.





المجلس الإسلامي الأمريكي للغذاء و التغذية

THE ISLAMIC FOOD AND NUTRITION COUNCIL OF AMERICA

IFANCA HALAL PRODUCT CERTIFICATE شهادة حلال

This is to certify that the following product(s) have been produced under the supervision of the Islamic Food and Nutrition Council of America (IFANCA). The production facility as well as component ingredients have been reviewed and approved. The product(s) are in compliance with the halal requirements under Islamic laws.

Date: July 23, 2024

Document #: 4739.15720.II240011

Company Name & Address: **Sigma-Aldrich Corporation** 6000 N. Teutonia Avenue Milwaukee, Wisconsin 53209 USA

Plant Name & Address: **Aldrich Chemical Company, LLC** 5485 County Road V Sheboygan Falls, Wisconsin 53085 USA

Product Name	Product Code	Halal-ID	Product Certificate #
12. (±)-CITRONELLAL, NATURAL	W230715	C49385	HC-24SI4V35
13. (1R)-(-)-MYRTENAL 97%	W339504	A33489	HC-24SI6W97
14. (1R)-(+)-ALPHA-PINENE 97%	W290238	B15454	HC-24SI1D79
15. (1S)-(-)-VERBENONE 93%	W506907	A28257	HC-24SI9T58
16. (METHYLTHIO)METHYLPYRAZINE MIXTURE OF ISOMERS, 98%	W320803	B12828	HC-24SI2M58
17. (R)-(+)-LIMONENE	W263303	C56642	HC-24SIGD22
18. (S)-(-)-BETA-CITRONELLOL	W230920	C29138	HC-24SI8185
19. (S)-(-)-PERILLALDEHYDE 92%	W355704	A93532	HC-24SI5O98
20. (S)-(-)-PERILLYL ALCOHOL 95%	W266418	A88083	HC-24SI8C63
21. 1-(2-THIENYL)-1-PROPANONE, 97%, FG	W559001	B20753	HC-24SIN417
22. 1,2-DIMETHOXYBENZENE	W379905	C29771	HC-24SIZL74

Muhammad Munir Chaudry

Muhammad Munir Chaudry, Ph.D.
President



This certificate is valid until **July 31, 2025** and subject to renewal at that time.



Page 2 of 99



المجلس الإسلامي الأمريكي للغذاء و التغذية
THE ISLAMIC FOOD AND NUTRITION COUNCIL OF AMERICA
IFANCA HALAL PRODUCT CERTIFICATE شهادة حلال

This is to certify that the following product(s) have been produced under the supervision of the Islamic Food and Nutrition Council of America (IFANCA). The production facility as well as component ingredients have been reviewed and approved. The product(s) are in compliance with the halal requirements under Islamic laws.

Date: July 23, 2024

Document #: 4739.15720.II240011

Company Name & Address: **Sigma-Aldrich Corporation** 6000 N. Teutonia Avenue Milwaukee, Wisconsin 53209 USA

Plant Name & Address: **Aldrich Chemical Company, LLC** 5485 County Road V Sheboygan Falls, Wisconsin 53085 USA

Product Name	Product Code	Halal-ID	Product Certificate #
23. 1,3,5-UNDECATRIENE, MIXTURE OF 1,3(E),5(Z) AND 1,3(E),5(E) ISOMERS 70%	W379506	A86821	HC-24SI8658
24. 1,3-DIMETHOXYBENZENE 98%, FG	W238503	B32256	HC-24SI1491
25. 1,3-DIPHENYL-2-PROPANONE 98%, FG	W239704	A90490	HC-24SI9077
26. 1,3-PROPANEDITHIOL 96%	W358800	A21811	HC-24SIB719
27. 1,4-BUTANEDITHIOL	W520802	C37191	HC-24SIZN70
28. 1,4-CINEOLE 85%	W365807	A55496	HC-24SIGG34
29. 1,4-CINEOLE, =95%, FG	W365820	A53755	HC-24SIFL21
30. 1,4-DIMETHOXYBENZENE	W238600	C39740	HC-24SI8P28
31. 1,6-HEXANEDITHIOL 97%, FG	W349518	A58733	HC-24SIDX54
32. 10-Undecen-1-ol	W562125	C29024	HC-24SI9X78
33. 10-UNDECENAL 95%, FG, STABILIZED	W309508	A26084	HC-24SIDW37

Muhammad Munir Chaudry

Muhammad Munir Chaudry, Ph.D.
President



This certificate is valid until **July 31, 2025** and subject to renewal at that time.





المجلس الإسلامي الأمريكي للغذاء و التغذية
THE ISLAMIC FOOD AND NUTRITION COUNCIL OF AMERICA
IFANCA HALAL PRODUCT CERTIFICATE شهادة حلال

This is to certify that the following product(s) have been produced under the supervision of the Islamic Food and Nutrition Council of America (IFANCA). The production facility as well as component ingredients have been reviewed and approved. The product(s) are in compliance with the halal requirements under Islamic laws.

Date: July 23, 2024

Document #: 4739.15720.II240011

Company Name & Address: **Sigma-Aldrich Corporation** 6000 N. Teutonia Avenue Milwaukee, Wisconsin 53209 USA

Plant Name & Address: **Aldrich Chemical Company, LLC** 5485 County Road V Sheboygan Falls, Wisconsin 53085 USA

Product Name	Product Code	Halal-ID	Product Certificate #
34. 1-DECANOL 98%, FCC, FG	W236500	A75618	HC-24SI6B77
35. 1-FURFURYLPIRROLE	W328400	C29581	HC-24SIYV46
36. 1-FURFURYLPIRROLE 98%, FG	W328405	A74325	HC-24SIZ870
37. 1-HEXEN-3-OL 98%, STABILIZED, FG	W360805	B71790	HC-24SI9V72
38. 1-METHYLNAPHTHALENE 95%, FG	W319309	A67243	HC-24SI6I17
39. 1-METHYLPIPERIDINE 98%	W510211	B85066	HC-24SI9Q63
40. 1-OCTANOL 98%, FCC, FG	W280003	B83624	HC-24SI8L50
41. 1-OCTEN-3-OL	W280523	C35043	HC-24SICW16
42. 1-OCTEN-3-OL 98%, FCC, FG	W280518	B86284	HC-24SI3O73
43. 1-OCTEN-3-ONE 50 WT. % IN 1-OCTEN-3-OL, FG	W351504	B81043	HC-24SI3733
44. 1-OCTEN-3-YL ACETATE, =97%, FCC, FG	W358207	A47062	HC-24SIU284
45. 1-OCTEN-3-YL BUTYRATE	W361208	C56644	HC-24SISY92

Muhammad Munir Chaudry

Muhammad Munir Chaudry, Ph.D.
President



This certificate is valid until **July 31, 2025** and subject to renewal at that time.





المجلس الإسلامي الأمريكي للغذاء و التغذية

THE ISLAMIC FOOD AND NUTRITION COUNCIL OF AMERICA

IFANCA HALAL PRODUCT CERTIFICATE شهادة حلال

This is to certify that the following product(s) have been produced under the supervision of the Islamic Food and Nutrition Council of America (IFANCA). The production facility as well as component ingredients have been reviewed and approved. The product(s) are in compliance with the halal requirements under Islamic laws.

Date: July 23, 2024

Document #: 4739.15720.II240011

Company Name & Address: **Sigma-Aldrich Corporation** 6000 N. Teutonia Avenue Milwaukee, Wisconsin 53209 USA

Plant Name & Address: **Aldrich Chemical Company, LLC** 5485 County Road V Sheboygan Falls, Wisconsin 53085 USA

Product Name	Product Code	Halal-ID	Product Certificate #
46. 1-PENTEN-3-OL 98%, FG	W358401	B45151	HC-24SIJR81
47. 1-PHENYL-1,2-PROPANEDIONE 98%, FG	W322601	A60886	HC-24SIBV69
48. 1-PROPANETHIOL, NATURAL (US), 98.0%, FG	W352117	A55463	HC-24SIG232
49. 1-PROPANOL, NATURAL	W292826	C45649	HC-24SI1P51
50. 2-(1-METHYLPROPYL)THIAZOLE 98%	W337218	B37190	HC-24SIMG25
51. 2-(METHYLTHIO)PYRAZINE, =98%, FG	W323130	B82454	HC-24SI2A41
52. 2,2'-(DITHIODIMETHYLENE)DIFURAN 96%, NATURAL, FG	W314620	C87827	HC-24SIXC76
53. 2,2-(DITHIODIMETHYLENE)DIFURAN 95%, FG	W314609	A59841	HC-24SIDR58
54. 2,2-(THIODIMETHYLENE)DIFURAN 98%, FG	W323802	B86955	HC-24SI2G79
55. 2,3,5,6-TETRAMETHYLPYRAZINE 98%, FG	W323705	B42043	HC-24SINR54
56. 2,3,5,6-TETRAMETHYLPYRAZINE NATURAL, 98%, FG	W323713	B65499	HC-24SIBP26
57. 2,3,5-TRIMETHYLPYRAZINE 99%, FCC, FG	W324418	A40398	HC-24SIUA44

Muhammad Munir Chaudry

Muhammad Munir Chaudry, Ph.D.
President



This certificate is valid until **July 31, 2025** and subject to renewal at that time.





المجلس الإسلامي الأمريكي للغذاء و التغذية
THE ISLAMIC FOOD AND NUTRITION COUNCIL OF AMERICA
IFANCA HALAL PRODUCT CERTIFICATE شهادة حلال

This is to certify that the following product(s) have been produced under the supervision of the Islamic Food and Nutrition Council of America (IFANCA). The production facility as well as component ingredients have been reviewed and approved. The product(s) are in compliance with the halal requirements under Islamic laws.

Date: July 23, 2024

Document #: 4739.15720.II240011

Company Name & Address: **Sigma-Aldrich Corporation** 6000 N. Teutonia Avenue Milwaukee, Wisconsin 53209 USA

Plant Name & Address: **Aldrich Chemical Company, LLC** 5485 County Road V Sheboygan Falls, Wisconsin 53085 USA

Product Name	Product Code	Halal-ID	Product Certificate #
58. 2,3,5-TRIMETHYLPYRAZINE NATURAL, 95%, FG	W324426	B40694	HC-24SIL745
59. 2,3-BUTANEDITHIOL 99%, FG	W347701	B45527	HC-24SIU783
60. 2,3-DIETHYL-5-METHYLPYRAZINE	W333603	C39750	HC-24SI9Q12
61. 2,3-DIETHYLPYRAZINE	W313602	C51538	HC-24SI9E75
62. 2,3-DIMETHYL-5-(2-METHYLBUTYL)PYRAZINE	W530532	C42603	HC-24SI8Y29
63. 2,3-DIMETHYLPYRAZINE 95%, FCC, FG	W327107	B48775	HC-24SIYE04
64. 2,3-HEPTANEDIONE 97%, FG	W254304	B82696	HC-24SI8W45
65. 2,3-HEXANEDIONE 95%, FG	W255807	B75248	HC-24SIBC94
66. 2,3-HEXANEDIONE, NATURAL	W255801	C41911	HC-24SIYV75
67. 2,3-PENTANEDIONE 96%, FCC, FG	W284106	A10792	HC-24SIBH39
68. 2,3-PENTANEDIONE NATURAL, 96%, FG	W284114	B27079	HC-24SIKN66
69. 2,4,5-TRIMETHYLTHIAZOLE 98%, FG	W332518	B73600	HC-24SIDH82

Muhammad Munir Chaudry

Muhammad Munir Chaudry, Ph.D.
President



This certificate is valid until **July 31, 2025** and subject to renewal at that time.





المجلس الإسلامي الأمريكي للغذاء و التغذية
THE ISLAMIC FOOD AND NUTRITION COUNCIL OF AMERICA
IFANCA HALAL PRODUCT CERTIFICATE شهادة حلال

This is to certify that the following product(s) have been produced under the supervision of the Islamic Food and Nutrition Council of America (IFANCA). The production facility as well as component ingredients have been reviewed and approved. The product(s) are in compliance with the halal requirements under Islamic laws.

Date: July 23, 2024

Document #: 4739.15720.II240011

Company Name & Address: **Sigma-Aldrich Corporation** 6000 N. Teutonia Avenue Milwaukee, Wisconsin 53209 USA

Plant Name & Address: **Aldrich Chemical Company, LLC** 5485 County Road V Sheboygan Falls, Wisconsin 53085 USA

Product Name	Product Code	Halal-ID	Product Certificate #
70. 2,4-DIHYDROXYBENZOIC ACID 97%	W379808	B18532	HC-24SISA95
71. 2,4-DIMETHYL-5-ACETYLTHIAZOLE 97%	W326704	B37306	HC-24SIPQ26
72. 2,4-DODECADIENAL NATURAL (US)	W367000	D23339	HC-24SI7P98
73. 2,4-XYLENOL	W506206	C56647	HC-24SI5R94
74. 2,5-DIHYDROXY-1,4-DITHIANE, MIXTURE OF ISOMERS	W382604	C49392	HC-24SIN540
75. 2,5-DIMETHYL-2,5-DIHYDROXY-1,4-DITHIANE	W345001	C49391	HC-24SI1Q55
76. 2,5-DIMETHYL-3-OXO-(2H)-FUR-4-YL BUTYRATE NATURAL	W397025	D23342	HC-24SIJM45
77. 2,5-DIMETHYL-4-METHOXY-3(2H)-FURANONE 97%, FG	W366404	A19123	HC-24SIBI98
78. 2,5-DIMETHYL-4-METHOXY-3(2H)-FURANONE, NATURAL,	W366412	B25950	HC-24SIKW56
79. 2,5-DIMETHYLPYRAZINE 98%, FCC, FG	W327204	A93107	HC-24SI6F96
80. 2,5-DIMETHYLTHIOPHENE 98%	W515507	A55841	HC-24SIEZ37
81. 2,5-XYLENOL 99%, FG	W359505	B45216	HC-24SISY82

Muhammad Munir Chaudry

Muhammad Munir Chaudry, Ph.D.
President



This certificate is valid until **July 31, 2025** and subject to renewal at that time.





المجلس الإسلامي الأمريكي للغذاء و التغذية

THE ISLAMIC FOOD AND NUTRITION COUNCIL OF AMERICA

IFANCA HALAL PRODUCT CERTIFICATE شهادة حلال

This is to certify that the following product(s) have been produced under the supervision of the Islamic Food and Nutrition Council of America (IFANCA). The production facility as well as component ingredients have been reviewed and approved. The product(s) are in compliance with the halal requirements under Islamic laws.

Date: July 23, 2024

Document #: 4739.15720.II240011

Company Name & Address: **Sigma-Aldrich Corporation** 6000 N. Teutonia Avenue Milwaukee, Wisconsin 53209 USA

Plant Name & Address: **Aldrich Chemical Company, LLC** 5485 County Road V Sheboygan Falls, Wisconsin 53085 USA

Product Name	Product Code	Halal-ID	Product Certificate #
82. 2,6-DIMETHYLPYRAZIN, NATURAL	W327312	C10273	HC-24SIDY06
83. 2,6,6-TRIMETHYL-1-CYCLOHEXENE-1-ACETALDEHYDE, 75%	W347418	B63306	HC-24SIE706
84. 2,6-DIMETHOXYPHENOL 98%, FG	W313718	A36534	HC-24SIYB17
85. 2,6-DIMETHOXYPHENOL, NATURAL, =96%, FG	W313726	A69900	HC-24SIF242
86. 2,6-DIMETHYL-5-HEPTENAL FCC	W238902	B14462	HC-24SIZV69
87. 2,6-DIMETHYL-5-HEPTENAL, NATURAL MIXTURE OF ISOMERS	W238920	C20181	HC-24SISW93
88. 2,6-DIMETHYL-5-HEPTENOL NATURAL	W478955	D23356	HC-24SINK52
89. 2,6-DIMETHYLBENZENETHIOL 95%, FG	W366609	B58842	HC-24SIMA74
90. 2,6-DIMETHYLPYRAZINE 98%, FG	W327301	A48748	HC-24SIIB95
91. 2,6-DIMETHYLPYRIDINE 99%	W354007	B84767	HC-24SI7861
92. 2,6-XYLENOL	W324906	C53467	HC-24SIZL69

Muhammad Munir Chaudry

Muhammad Munir Chaudry, Ph.D.
President



This certificate is valid until **July 31, 2025** and subject to renewal at that time.



Page 8 of 99



المجلس الإسلامي الأمريكي للغذاء و التغذية

THE ISLAMIC FOOD AND NUTRITION COUNCIL OF AMERICA

IFANCA HALAL PRODUCT CERTIFICATE شهادة حلال

This is to certify that the following product(s) have been produced under the supervision of the Islamic Food and Nutrition Council of America (IFANCA). The production facility as well as component ingredients have been reviewed and approved. The product(s) are in compliance with the halal requirements under Islamic laws.

Date: July 23, 2024

Document #: 4739.15720.II240011

Company Name & Address: **Sigma-Aldrich Corporation** 6000 N. Teutonia Avenue Milwaukee, Wisconsin 53209 USA

Plant Name & Address: **Aldrich Chemical Company, LLC** 5485 County Road V Sheboygan Falls, Wisconsin 53085 USA

Product Name	Product Code	Halal-ID	Product Certificate #
93. 2-AMINOACETOPHENONE 98%	W390607	B62967	HC-24SIDD03
94. 2-ACETYL-1-METHYLPYRROLE 98%	W318418	B70685	HC-24SISQ59
95. 2-ACETYL-2-THIAZOLINE	W381718	C37189	HC-24SI5W87
96. 2-ACETYL-3,5(6)-DIMETHYLPYRAZINE, MIXTURE OF ISOMERS 98%	W332704	A34512	HC-24SI4604
97. 2-ACETYL-3,5(6)-DIMETHYLPYRAZINE, MIXTURE OF ISOMERS, =98%, FG	W332700	B73495	HC-24SIEG79
98. 2-ACETYL-3-ETHYLPYRAZINE 98%, FG	W325007	A41326	HC-24SIZT47
99. 2-ACETYL-3-METHYLPYRAZINE 98%, FG	W396400	A76622	HC-24SI4Q88
100. 2-ACETYL-5-METHYLFURAN 98%	W360902	B34338	HC-24SI8I11
101. 2-ACETYLPYRAZINE 99%, FCC, FG	W312606	A50484	HC-24SIGK06
102. 2-ACETYLPYRAZINE, =98%, NATURAL, FG	W312612	B38718	HC-24SINJ34
103. 2-ACETYLPYRIDINE 99%, FG	W325104	A11107	HC-24SIBG41

Muhammad Munir Chaudry

Muhammad Munir Chaudry, Ph.D.
President



This certificate is valid until **July 31, 2025** and subject to renewal at that time.





المجلس الإسلامي الأمريكي للغذاء و التغذية
THE ISLAMIC FOOD AND NUTRITION COUNCIL OF AMERICA
IFANCA HALAL PRODUCT CERTIFICATE شهادة حلال

This is to certify that the following product(s) have been produced under the supervision of the Islamic Food and Nutrition Council of America (IFANCA). The production facility as well as component ingredients have been reviewed and approved. The product(s) are in compliance with the halal requirements under Islamic laws.

Date: July 23, 2024

Document #: 4739.15720.II240011

Company Name & Address: **Sigma-Aldrich Corporation** 6000 N. Teutonia Avenue Milwaukee, Wisconsin 53209 USA

Plant Name & Address: **Aldrich Chemical Company, LLC** 5485 County Road V Sheboygan Falls, Wisconsin 53085 USA

Product Name	Product Code	Halal-ID	Product Certificate #
104. 2-ACETYLTHIAZOLE 99%, FG	W332801	B77857	HC-24SI4N13
105. 2-ACETYLTHIOPHENE 98%, FG	W503509	B18491	HC-24SISN94
106. 2-BUTANONE 99.5%, FCC, FG	W217018	A13055	HC-24SI7E56
107. 2-BUTANONE, NATURAL, =99%, FG	W217012	A27689	HC-24SICL52
108. 2-BUTYL-2-OCTENAL NATURAL (US)	W461655	D23350	HC-24SIOM58
109. 2-ETHOXYTHIAZOLE 99%	W334006	A49784	HC-24SIJ501
110. 2-ETHYL-1-HEXANOL 99%, FG	W315109	B19988	HC-24SIP110
111. 2-ETHYL-2-HEXENAL MIXTURE OF ISOMERS, NATURAL (US)	W461216	D23349	HC-24SIJY73
112. 2-ETHYL-3(5 OR 6)-DIMETHYLPYRAZINE, MIXTURE OF ISOMERS 95%, FG	W314900	B86821	HC-24SI3X77
113. 2-ETHYL-3-METHOXYPYRAZINE	W514403	C47745	HC-24SI1744
114. 2-ETHYL-3-METHYLPYRAZINE 98%, FCC, FG	W315508	A96299	HC-24SI7Z18

Muhammad Munir Chaudry

Muhammad Munir Chaudry, Ph.D.
President



This certificate is valid until **July 31, 2025** and subject to renewal at that time.





المجلس الإسلامي الأمريكي للغذاء و التغذية
THE ISLAMIC FOOD AND NUTRITION COUNCIL OF AMERICA
IFANCA HALAL PRODUCT CERTIFICATE شهادة حلال

This is to certify that the following product(s) have been produced under the supervision of the Islamic Food and Nutrition Council of America (IFANCA). The production facility as well as component ingredients have been reviewed and approved. The product(s) are in compliance with the halal requirements under Islamic laws.

Date: July 23, 2024

Document #: 4739.15720.II240011

Company Name & Address: **Sigma-Aldrich Corporation** 6000 N. Teutonia Avenue Milwaukee, Wisconsin 53209 USA

Plant Name & Address: **Aldrich Chemical Company, LLC** 5485 County Road V Sheboygan Falls, Wisconsin 53085 USA

Product Name	Product Code	Halal-ID	Product Certificate #
115. 2-ETHYL-4-METHYL-1,3-DITHIOLANE	W487012	D23358	HC-24SINU69
116. 2-ETHYL-4-METHYLTHIAZOLE 98%, FG	W368008	A49565	HC-24SIJM99
117. 2-ETHYLBENZENETHIOL	W334502	C36288	HC-24SI9S79
118. 2-ETHYLBUTYRIC ACID	W242918	C39741	HC-24SITY02
119. 2-ETHYLFENCHOL 97%, FCC	W349100	B46801	HC-24SIVA94
120. 2-ETHYLFURAN 99%	W367303	A12155	HC-24SIBG46
121. 2-ETHYLHEXYL ACETATE 99%	W514705	B17664	HC-24SIQW90
122. 2-ETHYLHEXYL SALICYLATE 99%	W514500	B56275	HC-24SIM759
123. 2-ETHYLPYRAZINE 98%, FG	W328103	A88364	HC-24SI8T65
124. 2-ETHYLPYRIDINE	W800025	C10279	HC-24SIZ968
125. 2-FURANMETHANETHIOL FORMATE 97%, FG	W315818	B51565	HC-24SIRR27
126. 2-FURYL METHYL KETONE 99%, FG	W316318	B59323	HC-24SIMH75

Muhammad Munir Chaudry

Muhammad Munir Chaudry, Ph.D.
President



This certificate is valid until **July 31, 2025** and subject to renewal at that time.





المجلس الإسلامي الأمريكي للغذاء و التغذية
THE ISLAMIC FOOD AND NUTRITION COUNCIL OF AMERICA
IFANCA HALAL PRODUCT CERTIFICATE شهادة حلال

This is to certify that the following product(s) have been produced under the supervision of the Islamic Food and Nutrition Council of America (IFANCA). The production facility as well as component ingredients have been reviewed and approved. The product(s) are in compliance with the halal requirements under Islamic laws.

Date: July 23, 2024

Document #: 4739.15720.II240011

Company Name & Address: **Sigma-Aldrich Corporation** 6000 N. Teutonia Avenue Milwaukee, Wisconsin 53209 USA

Plant Name & Address: **Aldrich Chemical Company, LLC** 5485 County Road V Sheboygan Falls, Wisconsin 53085 USA

Product Name	Product Code	Halal-ID	Product Certificate #
127. 2-FURYL METHYL KETONE, NATURAL (US)	W316315	C29501	HC-24SI5R90
128. 2-HEPTANOL =97%	W328804	C29585	HC-24SIAH87
129. 2-HEPTANOL 97%	W328800	B23068	HC-24SILF33
130. 2-HEPTANONE 98%, FCC, FG	W254401	A70465	HC-24SIFB45
131. 2-HEPTANONE, NATURAL	W254430	C20187	HC-24SIF227
132. 2-HEXYL-2-DECENAL MIXTURE OF CIS AND TRANS	W478601	D23354	HC-24SI4599
133. 2-HEXYL-2-DECENAL NATURAL (US), MIXTURE OF CIS AND TRANS, ST	W478620	D23355	HC-24SICC84
134. 2-ISOBUTYL-3-METHOXYPIRAZINE 99%, FG	W313203	A45006	HC-24SIYZ67
135. 2-ISOBUTYL-3-METHYLPYRAZINE 99%, FG	W313300	A71869	HC-24SIAG55
136. 2-ISOBUTYLTHIAZOLE 99%, FG	W313408	B53627	HC-24SINI41
137. 2-ISOPROPYL-4-METHYLTHIAZOLE 98%, FG	W355518	B72748	HC-24SI9574

Muhammad Munir Chaudry

Muhammad Munir Chaudry, Ph.D.
President



This certificate is valid until **July 31, 2025** and subject to renewal at that time.





المجلس الإسلامي الأمريكي للغذاء و التغذية

THE ISLAMIC FOOD AND NUTRITION COUNCIL OF AMERICA

IFANCA HALAL PRODUCT CERTIFICATE شهادة حلال

This is to certify that the following product(s) have been produced under the supervision of the Islamic Food and Nutrition Council of America (IFANCA). The production facility as well as component ingredients have been reviewed and approved. The product(s) are in compliance with the halal requirements under Islamic laws.

Date: July 23, 2024

Document #: 4739.15720.II240011

Company Name & Address: **Sigma-Aldrich Corporation** 6000 N. Teutonia Avenue Milwaukee, Wisconsin 53209 USA

Plant Name & Address: **Aldrich Chemical Company, LLC** 5485 County Road V Sheboygan Falls, Wisconsin 53085 USA

Product Name	Product Code	Halal-ID	Product Certificate #
138. 2-ISOPROPYL-5-METHYL-2-HEXENAL 95%, FG	W340618	B68527	HC-24SI6L43
139. 2-Isopropyl-N,2,3-trimethylbutyramide	W380423	C29811	HC-24SIRF42
140. 2-ISOPROPYLPHENOL	W346101	C44273	HC-24SIUP85
141. 2-MERCAPTO-3-BUTANOL MIXTURE OF ISOMERS, 97%, FG	W350206	B24057	HC-24SIJI43
142. 2-MERCAPTOPROPIONIC ACID 95%	W318000	A34205	HC-24SI4G01
143. 2-METHOXY-3-(1-METHYLPROPYL)PYRAZINE 98%, FG	W343307	B66331	HC-24SIA129
144. 2-METHOXY-3(5 OR 6)-ISOPROPYLPYRAZINE	W335809	C29623	HC-24SIL566
145. 2-METHOXY-3(5 OR 6)-ISOPROPYLPYRAZINE 98%	W335800	A12615	HC-24SI8851
146. 2-METHOXY-3-METHYLPYRAZINE 99%, FCC, FG	W318302	B20615	HC-24SIPL15
147. 2-METHOXY-4-METHYLPHENOL 98%, FG	W267104	B41333	HC-24SIMA48
148. 2-Methoxy-4-Methylphenol, Natural	W267112	C41912	HC-24SIME46
149. 2-METHOXY-4-VINYLPHENOL 98%	W267511	B83657	HC-24SI9E52

Muhammad Munir Chaudry

Muhammad Munir Chaudry, Ph.D.
President



This certificate is valid until **July 31, 2025** and subject to renewal at that time.





المجلس الإسلامي الأمريكي للغذاء و التغذية

THE ISLAMIC FOOD AND NUTRITION COUNCIL OF AMERICA

IFANCA HALAL PRODUCT CERTIFICATE شهادة حلال

This is to certify that the following product(s) have been produced under the supervision of the Islamic Food and Nutrition Council of America (IFANCA). The production facility as well as component ingredients have been reviewed and approved. The product(s) are in compliance with the halal requirements under Islamic laws.

Date: July 23, 2024

Document #: 4739.15720.II240011

Company Name & Address: **Sigma-Aldrich Corporation** 6000 N. Teutonia Avenue Milwaukee, Wisconsin 53209 USA

Plant Name & Address: **Aldrich Chemical Company, LLC** 5485 County Road V Sheboygan Falls, Wisconsin 53085 USA

Product Name	Product Code	Halal-ID	Product Certificate #
150. 2-METHOXYCINNAMALDEHYDE, NATURAL	W318101	C36287	HC-24SINF31
151. 2-METHOXYPYRAZINE 99%, FCC, FG	W330205	A49297	HC-24SIIT98
152. 2-METHOXYTHIOPHENOL 97%, FG	W415901	A23042	HC-24SI8525
153. 2-METHYL-1-BUTANETHIOL	W330302	C44270	HC-24SITW48
154. 2-METHYL-1-BUTANOL 99%, FG	W399809	A95844	HC-24SI6J16
155. 2-METHYL-1-BUTANOL NATURAL, 99%, FG	W399817	A61564	HC-24SIBS72
156. 2-METHYL-1-PROPANETHIOL 95%, FG	W387401	B76710	HC-24SICI06
157. 2-METHYL-2-PENTENAL 97%, FG	W319406	A95368	HC-24SI7A12
158. 2-METHYL-3(5 OR 6)-ETHOXYPYRAZINE MIXTURE OF ISOMERS, 99%	W356905	B87037	HC-24SI3U81
159. 2-METHYL-3-(P-ISOPROPYLPHENYL)PROPIONALDEHYDE 95%, FCC, FG	W274305	A77909	HC-24SIHQ03
160. 2-METHYL-3-FURANTHIOL 95%, FG	W318809	B38394	HC-24SIN332

Muhammad Munir Chaudry

Muhammad Munir Chaudry, Ph.D.
President



This certificate is valid until **July 31, 2025** and subject to renewal at that time.





المجلس الإسلامي الأمريكي للغذاء و التغذية
THE ISLAMIC FOOD AND NUTRITION COUNCIL OF AMERICA
IFANCA HALAL PRODUCT CERTIFICATE شهادة حلال

This is to certify that the following product(s) have been produced under the supervision of the Islamic Food and Nutrition Council of America (IFANCA). The production facility as well as component ingredients have been reviewed and approved. The product(s) are in compliance with the halal requirements under Islamic laws.

Date: July 23, 2024

Document #: 4739.15720.II240011

Company Name & Address: **Sigma-Aldrich Corporation** 6000 N. Teutonia Avenue Milwaukee, Wisconsin 53209 USA

Plant Name & Address: **Aldrich Chemical Company, LLC** 5485 County Road V Sheboygan Falls, Wisconsin 53085 USA

Product Name	Product Code	Halal-ID	Product Certificate #
161. 2-METHYL-3-FURANTHIOL ACETATE, 98%, FG	W397301	B23066	HC-24SIM932
162. 2-METHYL-3-METHYLTHIOFURAN 98%, FG	W394904	A63206	HC-24SIB890
163. 2-METHYL-3-TETRAHYDROFURANTHIOL MIXTURE OF CIS AND TRANS, 97%, FG	W378704	A67853	HC-24SIHR24
164. 2-METHYL-4-PENTENOIC ACID 98%, FG	W351105	B32706	HC-24SI1796
165. 2-METHYL-4-PROPYL-1,3-OXATHIANE, MIXTURE OF CIS AND TRANS 98%, FG	W357804	B57071	HC-24SIKE65
166. 2-METHYLANISOLE	W268003	C39746	HC-24SINI11
167. 2-METHYLBUTYL 2-METHYLBUTYRATE 95%, FG	W335908	B32536	HC-24SI2X95
168. 2-METHYLBUTYL ACETATE 99%, FG	W364401	B33601	HC-24SI8Z05
169. 2-METHYLBUTYL ACETATE NATURAL, FG	W364428	B56841	HC-24SIKB64
170. 2-METHYLBUTYL ISOVALERATE 98%, FCC, FG	W350605	A68101	HC-24SIDR26
171. 2-METHYLBUTYL ISOVALERATE NATURAL, 98%, FCC, FG	W350613	B25411	HC-24SIK254

Muhammad Munir Chaudry

Muhammad Munir Chaudry, Ph.D.
President



This certificate is valid until **July 31, 2025** and subject to renewal at that time.





المجلس الإسلامي الأمريكي للغذاء و التغذية
THE ISLAMIC FOOD AND NUTRITION COUNCIL OF AMERICA
IFANCA HALAL PRODUCT CERTIFICATE شهادة حلال

This is to certify that the following product(s) have been produced under the supervision of the Islamic Food and Nutrition Council of America (IFANCA). The production facility as well as component ingredients have been reviewed and approved. The product(s) are in compliance with the halal requirements under Islamic laws.

Date: July 23, 2024

Document #: 4739.15720.II240011

Company Name & Address: **Sigma-Aldrich Corporation** 6000 N. Teutonia Avenue Milwaukee, Wisconsin 53209 USA

Plant Name & Address: **Aldrich Chemical Company, LLC** 5485 County Road V Sheboygan Falls, Wisconsin 53085 USA

Product Name	Product Code	Halal-ID	Product Certificate #
172. 2-METHYLBUTYRALDEHYDE 95%, FG	W269107	A57208	HC-24SIDB44
173. 2-METHYLBUTYRIC ACID 98%, FG	W269506	A64485	HC-24SIA196
174. 2-METHYLFURAN 98%, STABILIZED WITH BHT	W417901	A60349	HC-24SIEK63
175. 2-METHYLFURAN, =99%, FG	W417920	A96434	HC-24SI2E22
176. 2-METHYLHEPTANOIC ACID 97%	W270601	A14556	HC-24SI9666
177. 2-METHYLHEXANOIC ACID 99%, FG	W319104	B43142	HC-24SIRN64
178. 2-METHYLPENTANOIC ACID 98%, FCC, FG	W275409	A21136	HC-24SIC914
179. 2-METHYLPYRAZINE 99%, FCC, FG	W330906	A22559	HC-24SIBL23
180. 2-METHYLTETRAHYDROFURAN-3-ONE 97%, FG	W337307	A81039	HC-24SIET21
181. 2-METHYLTETRAHYDROFURAN-3-ONE, NATURAL, =97%, FG	W337330	A34674	HC-24SI5M06
182. 2-NONANONE NATURAL, 97%, FCC, FG	W278513	B36831	HC-24SIMX22

Muhammad Munir Chaudry

Muhammad Munir Chaudry, Ph.D.
President



This certificate is valid until **July 31, 2025** and subject to renewal at that time.





المجلس الإسلامي الأمريكي للغذاء و التغذية
THE ISLAMIC FOOD AND NUTRITION COUNCIL OF AMERICA
IFANCA HALAL PRODUCT CERTIFICATE شهادة حلال

This is to certify that the following product(s) have been produced under the supervision of the Islamic Food and Nutrition Council of America (IFANCA). The production facility as well as component ingredients have been reviewed and approved. The product(s) are in compliance with the halal requirements under Islamic laws.

Date: July 23, 2024

Document #: 4739.15720.II240011

Company Name & Address: **Sigma-Aldrich Corporation** 6000 N. Teutonia Avenue Milwaukee, Wisconsin 53209 USA

Plant Name & Address: **Aldrich Chemical Company, LLC** 5485 County Road V Sheboygan Falls, Wisconsin 53085 USA

Product Name	Product Code	Halal-ID	Product Certificate #
183. 2-NONANONE, FG	W278505	C87826	HC-24SIY914
184. 2-OCTANOL 97%	W280100	A64637	HC-24SI7101
185. 2-OCTANONE	W280208	C39749	HC-24SI1G18
186. 2-OCTANONE, NATURAL	W280220	C20189	HC-24SIBT79
187. 2-OCTYL-2-DODECENAL MIXTURE OF CIS AND TRANS	W478515	D23353	HC-24SI8K52
188. 2-PENTADECANONE 98%, FG	W372404	B70945	HC-24SITX62
189. 2-PENTANOL 98%, FG	W331600	B11229	HC-24SI3151
190. 2-PENTANONE	W284203	C42593	HC-24SIB538
191. 2-PENTYLFURAN 98%, FG	W331708	B67187	HC-24SIB336
192. 2-PHENYL-1-PROPANOL	W273201	C39747	HC-24SIDK01
193. 2-PHENYL-2-BUTENAL, MIXTURE OF CIS AND TRANS 97%, FG	W322407	A97023	HC-24SI3D27

Muhammad Munir Chaudry

Muhammad Munir Chaudry, Ph.D.
President



This certificate is valid until **July 31, 2025** and subject to renewal at that time.





المجلس الإسلامي الأمريكي للغذاء و التغذية
THE ISLAMIC FOOD AND NUTRITION COUNCIL OF AMERICA
IFANCA HALAL PRODUCT CERTIFICATE شهادة حلال

This is to certify that the following product(s) have been produced under the supervision of the Islamic Food and Nutrition Council of America (IFANCA). The production facility as well as component ingredients have been reviewed and approved. The product(s) are in compliance with the halal requirements under Islamic laws.

Date: July 23, 2024

Document #: 4739.15720.II240011

Company Name & Address: **Sigma-Aldrich Corporation** 6000 N. Teutonia Avenue Milwaukee, Wisconsin 53209 USA

Plant Name & Address: **Aldrich Chemical Company, LLC** 5485 County Road V Sheboygan Falls, Wisconsin 53085 USA

Product Name	Product Code	Halal-ID	Product Certificate #
194. 2-PHENYL-2-BUTENAL, MIXTURE OF CIS AND TRANS, 97%, FG	W322400	B61433	HC-24SIDR90
195. 2-PHENYLETHYL ISOTHIOCYANATE 99%, FG	W401404	A24941	HC-24SID432
196. 2-PHENYLPROPIONALDEHYDE 95%, FCC, FG	W288608	A57918	HC-24SID248
197. 2-PROPANETHIOL NATURAL (US)	W389755	D23341	HC-24SIMT77
198. 2-PROPYLPYRAZINE	W396103	C29792	HC-24SI9W73
199. 2-THIENYL DISULFIDE 95%	W332305	A34305	HC-24SI4U02
200. 2-THIOPHENETHIOL 90%	W306207	A42146	HC-24SI1U56
201. 2-TRIDECANONE 96%, FG	W338818	B20816	HC-24SIND18
202. 2-TRIDECANONE NATURAL	W338820	D12706	HC-24SIZW13
203. 2-UNDECANOL	W324604	C49389	HC-24SIL365
204. 2-UNDECANONE 98%, FCC, FG	W309303	B64325	HC-24SI9715

Muhammad Munir Chaudry

Muhammad Munir Chaudry, Ph.D.
President



This certificate is valid until **July 31, 2025** and subject to renewal at that time.





المجلس الإسلامي الأمريكي للغذاء و التغذية
THE ISLAMIC FOOD AND NUTRITION COUNCIL OF AMERICA
IFANCA HALAL PRODUCT CERTIFICATE شهادة حلال

This is to certify that the following product(s) have been produced under the supervision of the Islamic Food and Nutrition Council of America (IFANCA). The production facility as well as component ingredients have been reviewed and approved. The product(s) are in compliance with the halal requirements under Islamic laws.

Date: July 23, 2024

Document #: 4739.15720.II240011

Company Name & Address: **Sigma-Aldrich Corporation** 6000 N. Teutonia Avenue Milwaukee, Wisconsin 53209 USA

Plant Name & Address: **Aldrich Chemical Company, LLC** 5485 County Road V Sheboygan Falls, Wisconsin 53085 USA

Product Name	Product Code	Halal-ID	Product Certificate #
205. 2-UNDECANONE NATURAL	W309311	D12699	HC-24SIX453
206. 2-Undecen-1-Ol	W406801	A99884	HC-24SI6543
207. 3-(METHYLTHIO)-1-HEXANOL	W343803	C44272	HC-24SIAR01
208. 3-(METHYLTHIO)-1-HEXANOL NATURAL	W343847	D23337	HC-24SIAX83
209. 3-(METHYLTHIO)-1-PROPANOL 98%, FG	W341509	A16595	HC-24SIHB79
210. 3-(METHYLTHIO)BUTANAL 96%, FG	W337404	B35350	HC-24SIU817
211. 3-(METHYLTHIO)HEXYL ACETATE 97%, FG	W378917	B23379	HC-24SILC36
212. 3-(METHYLTHIO)PROPYL ISOTHIOCYANATE 98%, FG	W331201	A32483	HC-24SI6K92
213. 3,4-DIMETHYL-1,2-CYCLOPENTADIONE 97%	W326801	B59475	HC-24SI6278
214. 3,4-HEXANEDIONE 90%	W316814	A55482	HC-24SIGE33
215. 3,4-XYLENOL	W359602	C51542	HC-24SIEU07
216. 3,5,5-TRIMETHYLHEXANAL 95%, FG	W352403	A12153	HC-24SIC445

Muhammad Munir Chaudry

Muhammad Munir Chaudry, Ph.D.
President



This certificate is valid until **July 31, 2025** and subject to renewal at that time.





المجلس الإسلامي الأمريكي للغذاء و التغذية

THE ISLAMIC FOOD AND NUTRITION COUNCIL OF AMERICA

IFANCA HALAL PRODUCT CERTIFICATE شهادة حلال

This is to certify that the following product(s) have been produced under the supervision of the Islamic Food and Nutrition Council of America (IFANCA). The production facility as well as component ingredients have been reviewed and approved. The product(s) are in compliance with the halal requirements under Islamic laws.

Date: July 23, 2024

Document #: 4739.15720.II240011

Company Name & Address: **Sigma-Aldrich Corporation** 6000 N. Teutonia Avenue Milwaukee, Wisconsin 53209 USA

Plant Name & Address: **Aldrich Chemical Company, LLC** 5485 County Road V Sheboygan Falls, Wisconsin 53085 USA

Product Name	Product Code	Halal-ID	Product Certificate #
217. 3,5-DIMETHYL-1,2-CYCLOPENTADIONE 97%	W326909	B87368	HC-24SI2D85
218. 3,7-DIMETHYL-6-OCTENOIC ACID, NATURAL	W314220	C56643	HC-24SIWT10
219. 3-ACETYL-2,5-DIMETHYLFURAN 99%, FCC, FG	W339105	A19960	HC-24SIAU06
220. 3-ACETYL-2,5-DIMETHYLTHIOPHENE, 99%	W352705	A91560	HC-24SI5A86
221. 3-ACETILPYRIDINE 98%, FG	W342408	A27288	HC-24SIB246
222. 3-BUTYLIDENEPHTHALIDE MIXTURE OF CIS AND TRANS ISOMERS, 96%, FG	W333301	B67772	HC-24SI7P40
223. 3-DECANONE 97%	W396605	A12275	HC-24SI8L48
224. 3-DECEN-2-ONE PREDOMINANTLY TRANS, 97%	W353205	A65269	HC-24SI8506
225. 3-ETHYL-2-HYDROXY-2-CYCLOPENTEN-1-ONE SOLUTION 50 WT. % IN PROPYLENE GLYCOL	W315214	B60245	HC-24SICW81
226. 3-ETHYL-2-HYDROXY-2-CYCLOPENTEN-1-ONE, 97%	W315206	B63717	HC-24SI1511
227. 3-ETHILPYRIDINE 98%, FG	W339407	B78025	HC-24SI9H15

Muhammad Munir Chaudry

Muhammad Munir Chaudry, Ph.D.
President



This certificate is valid until **July 31, 2025** and subject to renewal at that time.





المجلس الإسلامي الأمريكي للغذاء و التغذية
THE ISLAMIC FOOD AND NUTRITION COUNCIL OF AMERICA
IFANCA HALAL PRODUCT CERTIFICATE شهادة حلال

This is to certify that the following product(s) have been produced under the supervision of the Islamic Food and Nutrition Council of America (IFANCA). The production facility as well as component ingredients have been reviewed and approved. The product(s) are in compliance with the halal requirements under Islamic laws.

Date: July 23, 2024

Document #: 4739.15720.II240011

Company Name & Address: **Sigma-Aldrich Corporation** 6000 N. Teutonia Avenue Milwaukee, Wisconsin 53209 USA

Plant Name & Address: **Aldrich Chemical Company, LLC** 5485 County Road V Sheboygan Falls, Wisconsin 53085 USA

Product Name	Product Code	Halal-ID	Product Certificate #
228. 3-HEPTANONE 96%	W254509	A58782	HC-24SIDX55
229. 3-HEPYL ACETATE, NATURAL	W398000	B92007	HC-24SIAA66
230. 3-MERCAPTO-2-BUTANONE 80%	W329800	A86367	HC-24SICF54
231. 3-MERCAPTOHEXYL ACETATE, =98%, FG	W385101	A55178	HC-24SIGE29
232. 3-METHYL-1,2-CYCLOHEXANEDIONE 98%, FG	W330507	B67604	HC-24SI7439
233. 3-METHYL-1-PENTANOL 99%, FG	W376205	B16258	HC-24SI1783
234. 3-METHYL-2-BUTANETHIOL 98%	W330418	A63580	HC-24SI9B92
235. 3-Methyl-2-Butenal	W364620	B43996	HC-24SIH71
236. 3-METHYL-2-CYCLOHEXENONE 98%	W336009	A56162	HC-24SIEY41
237. 3-METHYLBUTYL 2-METHYLBUTANOATE 98%	W350508	B83812	HC-24SI9754
238. 3-METHYLBUTYL 2-METHYLBUTANOATE NATURAL, 70% 3-METHYLBUTYL 2-METHYLBUTANOATE BASIS	W350516	A21185	HC-24SICK15

Muhammad Munir Chaudry

Muhammad Munir Chaudry, Ph.D.
President



This certificate is valid until **July 31, 2025** and subject to renewal at that time.





المجلس الإسلامي الأمريكي للغذاء و التغذية
THE ISLAMIC FOOD AND NUTRITION COUNCIL OF AMERICA
IFANCA HALAL PRODUCT CERTIFICATE شهادة حلال

This is to certify that the following product(s) have been produced under the supervision of the Islamic Food and Nutrition Council of America (IFANCA). The production facility as well as component ingredients have been reviewed and approved. The product(s) are in compliance with the halal requirements under Islamic laws.

Date: July 23, 2024

Document #: 4739.15720.II240011

Company Name & Address: **Sigma-Aldrich Corporation** 6000 N. Teutonia Avenue Milwaukee, Wisconsin 53209 USA

Plant Name & Address: **Aldrich Chemical Company, LLC** 5485 County Road V Sheboygan Falls, Wisconsin 53085 USA

Product Name	Product Code	Halal-ID	Product Certificate #
239. 3-Methylpentanoic acid =98%, FG	W343706	C14972	HC-24SIAT30
240. 3-METHYLPENTANOIC ACID 98%, FG	W343706	A86485	HC-24SICR55
241. 3-NONANONE, 96%, FG	W344001	B43695	HC-24SIIW69
242. 3-OCTANOL 97%, FCC, FG	W358118	B64741	HC-24SIAM20
243. 3-OCTANOL NATURAL, 97%, FCC, FG	W358126	A82290	HC-24SIE726
244. 3-OCTANONE 98%, FG	W280305	B10421	HC-24SI6146
245. 3-OCTYL ACETATE 98%, FCC, FG	W358304	B53781	HC-24SIQK43
246. 3-OCTYL ACETATE, NATURAL (US)	W358315	C45653	HC-24SIX312
247. 3-PENTEN-2-ONE	W341720	C29651	HC-24SIAL86
248. 3-PENTEN-2-ONE 70%	W341703	A38242	HC-24SIU831
249. 3-PHENYLPROPIONIC ACID 99%, FG	W288918	B25199	HC-24SI2950
250. 3-PHENYLPROPYL ISOBUTYRATE 98%, FG	W289302	B64394	HC-24SI9F17

Muhammad Munir Chaudry

Muhammad Munir Chaudry, Ph.D.
President



This certificate is valid until **July 31, 2025** and subject to renewal at that time.





المجلس الإسلامي الأمريكي للغذاء و التغذية

THE ISLAMIC FOOD AND NUTRITION COUNCIL OF AMERICA

IFANCA HALAL PRODUCT CERTIFICATE شهادة حلال

This is to certify that the following product(s) have been produced under the supervision of the Islamic Food and Nutrition Council of America (IFANCA). The production facility as well as component ingredients have been reviewed and approved. The product(s) are in compliance with the halal requirements under Islamic laws.

Date: July 23, 2024

Document #: 4739.15720.II240011

Company Name & Address: **Sigma-Aldrich Corporation** 6000 N. Teutonia Avenue Milwaukee, Wisconsin 53209 USA

Plant Name & Address: **Aldrich Chemical Company, LLC** 5485 County Road V Sheboygan Falls, Wisconsin 53085 USA

Product Name	Product Code	Halal-ID	Product Certificate #
251. 3-PROPYLIDENEPHTHALIDE MIXTURE OF CIS AND TRANS ISOMERS, 96%, FG	W295205	A48552	HC-24SIJ493
252. 4-(4-HYDROXYPHENYL)-2-BUTANONE	W258806	C45647	HC-24SIDU80
253. 4-(4-HYDROXYPHENYL)-2-BUTANONE NATURAL, 98%, FCC, FG	W258814	A10777	HC-24SICR38
254. 4-(4-METHOXYPHENYL)-2-BUTANONE 98%, FCC, FG	W267201	A61469	HC-24SIC571
255. 4-(P-ACETOXYPHENYL)-2-BUTANONE 96%	W365203	A38054	HC-24SIU130
256. 4,5,6,7-TETRAHYDRO-3,6-DIMETHYLBENZOFURAN 95%	W323500	A57066	HC-24SIEG43
257. 4,5-DIHYDRO-3(2H)-THIOPHENONE 98%, FG	W326607	A75633	HC-24SI6P78
258. 4,5-DIMETHYL-3-HYDROXY-2,5-DIHYDROFURAN-2-ONE 97%, FG	W363405	A91784	HC-24SI5689
259. 4,5-DIMETHYL-3-HYDROXY-2,5-DIHYDROFURAN-2-ONE SOLUTION 10 WT. % IN PROPYLENE GLYCOL	W363413	B60888	HC-24SICG85

Muhammad Munir Chaudry

Muhammad Munir Chaudry, Ph.D.
President



This certificate is valid until **July 31, 2025** and subject to renewal at that time.





المجلس الإسلامي الأمريكي للغذاء و التغذية

THE ISLAMIC FOOD AND NUTRITION COUNCIL OF AMERICA

IFANCA HALAL PRODUCT CERTIFICATE شهادة حلال

This is to certify that the following product(s) have been produced under the supervision of the Islamic Food and Nutrition Council of America (IFANCA). The production facility as well as component ingredients have been reviewed and approved. The product(s) are in compliance with the halal requirements under Islamic laws.

Date: July 23, 2024

Document #: 4739.15720.II240011

Company Name & Address: **Sigma-Aldrich Corporation** 6000 N. Teutonia Avenue Milwaukee, Wisconsin 53209 USA

Plant Name & Address: **Aldrich Chemical Company, LLC** 5485 County Road V Sheboygan Falls, Wisconsin 53085 USA

Product Name	Product Code	Halal-ID	Product Certificate #
260. 4,5-DIMETHYL-3-HYDROXY-2,5-DIHYDROFURAN-2-ONE SOLUTION 3 WT. % IN PROPYLENE GLYCOL	W363421	B73980	HC-24SIF586
261. 4-METHYLACETOPHENONE 95%, FCC, FG	W267708	B41438	HC-24SI7C49
262. 4-ACETOXY-2,5-DIMETHYL-3(2H)FURANONE 95%, FG	W379700	A86680	HC-24SI8Y57
263. 4-ACETOXY-2,5-DIMETHYL-3(2H)FURANONE, NATURAL (US)	W379715	C53469	HC-24SI2A59
264. 4-ALLYL-2,6-DIMETHOXYPHENOL	W365505	C29017	HC-24SICJ11
265. 4-ALLYLANISOLE	W241105	C56640	HC-24SIDS13
266. 4-CARVOMENTHENOL	W224820	C35047	HC-24SI8602
267. 4-CARVOMENTHENOL 92%, FCC	W224847	A37234	HC-24SIYG24
268. 4-ETHYLGUAIACOL 98%, FCC, FG	W243604	B28989	HC-24SIYY74
269. 4-ETHYLGUAIACOL, NATURAL	W243615	C36281	HC-24SIQE22
270. 4-ETHYLOCTANOIC ACID 98%, FG	W380008	A41478	HC-24SI1I51

Muhammad Munir Chaudry

Muhammad Munir Chaudry, Ph.D.
President



This certificate is valid until **July 31, 2025** and subject to renewal at that time.





المجلس الإسلامي الأمريكي للغذاء و التغذية

THE ISLAMIC FOOD AND NUTRITION COUNCIL OF AMERICA

IFANCA HALAL PRODUCT CERTIFICATE شهادة حلال

This is to certify that the following product(s) have been produced under the supervision of the Islamic Food and Nutrition Council of America (IFANCA). The production facility as well as component ingredients have been reviewed and approved. The product(s) are in compliance with the halal requirements under Islamic laws.

Date: July 23, 2024

Document #: 4739.15720.II240011

Company Name & Address: **Sigma-Aldrich Corporation** 6000 N. Teutonia Avenue Milwaukee, Wisconsin 53209 USA

Plant Name & Address: **Aldrich Chemical Company, LLC** 5485 County Road V Sheboygan Falls, Wisconsin 53085 USA

Product Name	Product Code	Halal-ID	Product Certificate #
271. 4-ETHYLPHENOL 98%, FG	W315605	B60919	HC-24SICK86
272. 4-HEPTANONE	W254606	C39745	HC-24SIIL39
273. 4-HEXEN-1-OL 96%, FG	W343005	A65247	HC-24SI8X05
274. 4-HEXEN-3-ONE 92%	W335207	B63508	HC-24SI3M09
275. 4-HYDROXY-2,5-DIMETHYL-3(2H)-FURANONE 98%, FCC, FG	W317403	B21711	HC-24SIKA27
276. 4-HYDROXY-2,5-DIMETHYL-3(2H)-FURANONE NATURAL, =98%, FG	W317454	B18667	HC-24SIRT97
277. 4-HYDROXY-2,5-DIMETHYL-3(2H)-FURANONE SOLUTION 10 WT. % IN PROPYLENE GLYCOL	W317411	A66917	HC-24SI6415
278. 4-Hydroxy-4-Methyl-7-cis-Decenoic Acid L-Lactone	W393713	C41924	HC-24SIGL13
279. 4-HYDROXY-5-METHYL-3-FURANONE 97%, FG	W363501	A88716	HC-24SI8566
280. 4-HYDROXYBENZALDEHYDE 97%, FG	W398403	B77103	HC-24SI4E11
281. 4-HYDROXYBUTANOIC ACID LACTONE	W329118	C37188	HC-24SI2U61

Muhammad Munir Chaudry

Muhammad Munir Chaudry, Ph.D.
President



This certificate is valid until **July 31, 2025** and subject to renewal at that time.





المجلس الإسلامي الأمريكي للغذاء و التغذية

THE ISLAMIC FOOD AND NUTRITION COUNCIL OF AMERICA

IFANCA HALAL PRODUCT CERTIFICATE شهادة حلال

This is to certify that the following product(s) have been produced under the supervision of the Islamic Food and Nutrition Council of America (IFANCA). The production facility as well as component ingredients have been reviewed and approved. The product(s) are in compliance with the halal requirements under Islamic laws.

Date: July 23, 2024

Document #: 4739.15720.II240011

Company Name & Address: **Sigma-Aldrich Corporation** 6000 N. Teutonia Avenue Milwaukee, Wisconsin 53209 USA

Plant Name & Address: **Aldrich Chemical Company, LLC** 5485 County Road V Sheboygan Falls, Wisconsin 53085 USA

Product Name	Product Code	Halal-ID	Product Certificate #
282. 4-METHYL-1-PHENYL-2-PENTANONE 95%, FG	W274003	B60061	HC-24SI6B79
283. 4-METHYL-2-PHENYL-2-PENTENAL, MIXTURE OF CIS AND TRANS 88%, STABILIZED	W320005	B45864	HC-24SIUE84
284. 4-METHYL-5-THIAZOLEETHANOL ACETATE 98%, FG	W320501	B80093	HC-24SI1H25
285. 4-METHYL-5-THIAZOLEETHANOL FG	W320404	A45808	HC-24SIW872
286. 4-METHYL-5-VINYLTIAZOLE 97%, FG	W331309	A77976	HC-24SIDI04
287. 4-METHYLANISOLE 99%, FCC, FG	W268100	A76428	HC-24SI7886
288. 4-METHYLNONANOIC ACID 97%	W357405	A22044	HC-24SIBI21
289. 4-METHYLPENTANOIC ACID 98%, FCC, FG	W346306	A46644	HC-24SIXI78
290. 4-METHYLPENTYL 4-METHYLVALERATE	W474900	C29023	HC-24SIZX50
291. 4-METHYLTHIAZOLE 98%, FG	W371602	A89840	HC-24SI9874
292. 4-METHYLTHIO-4-METHYL-2-PENTANONE 98%, FG	W337609	B12522	HC-24SI3756

Muhammad Munir Chaudry

Muhammad Munir Chaudry, Ph.D.
President



This certificate is valid until **July 31, 2025** and subject to renewal at that time.



Page 26 of 99



المجلس الإسلامي الأمريكي للغذاء و التغذية
THE ISLAMIC FOOD AND NUTRITION COUNCIL OF AMERICA
IFANCA HALAL PRODUCT CERTIFICATE شهادة حلال

This is to certify that the following product(s) have been produced under the supervision of the Islamic Food and Nutrition Council of America (IFANCA). The production facility as well as component ingredients have been reviewed and approved. The product(s) are in compliance with the halal requirements under Islamic laws.

Date: July 23, 2024

Document #: 4739.15720.II240011

Company Name & Address: **Sigma-Aldrich Corporation** 6000 N. Teutonia Avenue Milwaukee, Wisconsin 53209 USA

Plant Name & Address: **Aldrich Chemical Company, LLC** 5485 County Road V Sheboygan Falls, Wisconsin 53085 USA

Product Name	Product Code	Halal-ID	Product Certificate #
293. 4-OXOISOPHORONE 98%, FG	W342106	A20374	HC-24SICI09
294. 4-PENTENOIC ACID 98%, FG	W284300	A84180	HC-24SIY642
295. 4-PROPYLPHENOL 97%, FG	W364908	A82170	HC-24SIE525
296. 4-VINYLPHENOL SOLUTION 10 WT. % IN PROPYLENE GLYCOL, FG	W373923	A83184	HC-24SIBX32
297. 5-(HYDROXYMETHYL)FURFURAL 99%, FG	W501808	B55566	HC-24SIO552
298. 5,6,7,8-TETRAHYDROQUINOXALINE 97%, FG	W332100	B80753	HC-24SIAJ29
299. 5-ETHYL-3-HYDROXY-4-METHYL-2(5H)-FURANONE 97%, FG	W315303	A65181	HC-24SI8L04
300. 5-ETHYL-4-HYDROXY-2-METHYL-3(2H)-FURANONE NATURAL (US)	W362320	D23338	HC-24SI8V75
301. 5-ETHYL-4-HYDROXY-2-METHYL-3(2H)-FURANONE, MIXTURE OF ISOMERS 96%, FG	W362301	A93955	HC-24SI5Z01

Muhammad Munir Chaudry

Muhammad Munir Chaudry, Ph.D.
President



This certificate is valid until **July 31, 2025** and subject to renewal at that time.





المجلس الإسلامي الأمريكي للغذاء و التغذية

THE ISLAMIC FOOD AND NUTRITION COUNCIL OF AMERICA

IFANCA HALAL PRODUCT CERTIFICATE شهادة حلال

This is to certify that the following product(s) have been produced under the supervision of the Islamic Food and Nutrition Council of America (IFANCA). The production facility as well as component ingredients have been reviewed and approved. The product(s) are in compliance with the halal requirements under Islamic laws.

Date: July 23, 2024

Document #: 4739.15720.II240011

Company Name & Address: **Sigma-Aldrich Corporation** 6000 N. Teutonia Avenue Milwaukee, Wisconsin 53209 USA

Plant Name & Address: **Aldrich Chemical Company, LLC** 5485 County Road V Sheboygan Falls, Wisconsin 53085 USA

Product Name	Product Code	Halal-ID	Product Certificate #
302. 5H-5-METHYL-6,7-DIHYDROCYCLOPENTA[B]PYRAZINE 97%, FG	W330604	A17336	HC-24SIEK84
303. 5-METHYL-2-HEPTEN-4-ONE, PREDOMINANTLY TRANS 98%, FG	W376108	B49980	HC-24SI5Z15
304. 5-Methyl-2-Phenyl-2-Hexenal	W319912	B15662	HC-24SI1I81
305. 5-METHYL-2-PHENYL-2-HEXENAL 96%, FG	W319902	A29924	HC-24SI9P73
306. 5-METHYL-2-THIOPHENECARBOXALDEHYDE FG	W320900	B81687	HC-24SID438
307. 5-METHYLFURFURAL 98%, FG	W270202	A76901	HC-24SI4290
308. 5-METHYLQUINOXALINE 99%, FG	W320307	B26238	HC-24SIKX59
309. 6,10-DIMETHYL-5,9-UNDECADIEN-2-ONE 97%	W354201	A94816	HC-24SI6R08
310. 6-AMYL-ALPHA-PYRONE 96%, FG	W369608	B55311	HC-24SIOX51
311. 6-METHOXY-2,6-DIMETHYLHEPTANAL, STABILIZED	W474505	D23352	HC-24SIDH12
312. 6-METHYL-5-HEPTEN-2-OL NATURAL	W488401	D23359	HC-24SI9Y72

Muhammad Munir Chaudry

Muhammad Munir Chaudry, Ph.D.
President



This certificate is valid until **July 31, 2025** and subject to renewal at that time.



Page 28 of 99



المجلس الإسلامي الأمريكي للغذاء و التغذية

THE ISLAMIC FOOD AND NUTRITION COUNCIL OF AMERICA

IFANCA HALAL PRODUCT CERTIFICATE شهادة حلال

This is to certify that the following product(s) have been produced under the supervision of the Islamic Food and Nutrition Council of America (IFANCA). The production facility as well as component ingredients have been reviewed and approved. The product(s) are in compliance with the halal requirements under Islamic laws.

Date: July 23, 2024

Document #: 4739.15720.II240011

Company Name & Address: **Sigma-Aldrich Corporation** 6000 N. Teutonia Avenue Milwaukee, Wisconsin 53209 USA

Plant Name & Address: **Aldrich Chemical Company, LLC** 5485 County Road V Sheboygan Falls, Wisconsin 53085 USA

Product Name	Product Code	Halal-ID	Product Certificate #
313. 6-METHYL-5-HEPTEN-2-ONE	W270709	C45648	HC-24SI7682
314. 6-METHYLCOUMARIN 99%, FCC, FG	W269905	A36047	HC-24SIYH15
315. 6-METHYLQUINOLINE 98%, FG	W274402	A54652	HC-24SIG524
316. 9-DECENOIC ACID 95%, FG	W366005	B10710	HC-24SI3L49
317. a-ANGELICA LACTONE NATURAL (US)	W329355	D12704	HC-24SIRF87
318. ACETAL 98%, FG	W200204	B70987	HC-24SIHB63
319. ACETAL NATURAL, FG, 97%	W200220	B34607	HC-24SIUP15
320. Acetaldehyde	W200303	C41907	HC-24SIO202
321. ACETALDEHYDE NATURAL, 99%, FG	W200336	B18915	HC-24SIOI99
322. ACETANISOLE 98%, FCC, FG	W200506	B49309	HC-24SIU511
323. ACETIC ACID 99.5%, FCC, FG	W200611	B34313	HC-24SI8410
324. ACETIC ACID NATURAL, 99.5%, FG	W200603	A29395	HC-24SI8T68

Muhammad Munir Chaudry

Muhammad Munir Chaudry, Ph.D.
President



This certificate is valid until **July 31, 2025** and subject to renewal at that time.





المجلس الإسلامي الأمريكي للغذاء و التغذية
THE ISLAMIC FOOD AND NUTRITION COUNCIL OF AMERICA
IFANCA HALAL PRODUCT CERTIFICATE شهادة حلال

This is to certify that the following product(s) have been produced under the supervision of the Islamic Food and Nutrition Council of America (IFANCA). The production facility as well as component ingredients have been reviewed and approved. The product(s) are in compliance with the halal requirements under Islamic laws.

Date: July 23, 2024

Document #: 4739.15720.II240011

Company Name & Address: **Sigma-Aldrich Corporation** 6000 N. Teutonia Avenue Milwaukee, Wisconsin 53209 USA

Plant Name & Address: **Aldrich Chemical Company, LLC** 5485 County Road V Sheboygan Falls, Wisconsin 53085 USA

Product Name	Product Code	Halal-ID	Product Certificate #
325. ACETOIN 96%, FCC, FG	W200808	A10626	HC-24SIED35
326. ACETOIN ACETATE, NATURAL	W352623	C20195	HC-24SIAH57
327. ACETOIN NATURAL, 95%, FG	W200832	A38631	HC-24SIUV33
328. ACETONE	W332607	D12705	HC-24SI6393
329. ACETOPHENONE 98%, FCC, FG	W200905	B16594	HC-24SIRO86
330. ACETOVANILLONE	W508454	C44278	HC-24SIB734
331. Alginic Acid	W800014	B95987	HC-24SI7860
332. Allyl Butyrate	W202118	C32914	HC-24SI6272
333. ALLYL CYCLOHEXANEPROPIONATE 98%, FCC, FG	W202606	B87203	HC-24SI3F83
334. ALLYL DISULFIDE 80%, FG	W202800	A99044	HC-24SI7737
335. ALLYL HEPTANOATE 97%, FCC, FG	W203106	B65198	HC-24SIAW23
336. Allyl Heptanoate Natural	W203111	C32915	HC-24SIGI26

Muhammad Munir Chaudry

Muhammad Munir Chaudry, Ph.D.
President



This certificate is valid until **July 31, 2025** and subject to renewal at that time.





المجلس الإسلامي الأمريكي للغذاء و التغذية
THE ISLAMIC FOOD AND NUTRITION COUNCIL OF AMERICA
IFANCA HALAL PRODUCT CERTIFICATE شهادة حلال

This is to certify that the following product(s) have been produced under the supervision of the Islamic Food and Nutrition Council of America (IFANCA). The production facility as well as component ingredients have been reviewed and approved. The product(s) are in compliance with the halal requirements under Islamic laws.

Date: July 23, 2024

Document #: 4739.15720.II240011

Company Name & Address: **Sigma-Aldrich Corporation** 6000 N. Teutonia Avenue Milwaukee, Wisconsin 53209 USA

Plant Name & Address: **Aldrich Chemical Company, LLC** 5485 County Road V Sheboygan Falls, Wisconsin 53085 USA

Product Name	Product Code	Halal-ID	Product Certificate #
337. ALLYL HEXANOATE 98%, FCC, FG	W203203	A27383	HC-24SIBF47
338. ALLYL HEXANOATE NATURAL, 98%, FCC, FG	W203211	A21869	HC-24SIBO20
339. ALLYL ISOTHIOCYANATE 93%, FCC	W203408	A18451	HC-24SIA694
340. ALLYL PHENOXYACETATE, 99%	W203807	B71339	HC-24SI9470
341. ALLYL SULFIDE 97%, FG	W204218	B67430	HC-24SIBA37
342. ALLYL-ALPHA-IONONE, 65%	W203300	B38974	HC-24SILP38
343. ALMOND OIL, BITTER, NATURAL	W204600	C37172	HC-24SICF72
344. ALMOND OIL, SWEET, CERTIFIED ORGANIC (NOP)	W530119	B71078	HC-24SIIW64
345. ALPHA,ALPHA-DIMETHYLPHENETHYL ACETATE 98%, FCC	W239208	A87965	HC-24SI7X62
346. ALPHA,ALPHA-DIMETHYLPHENETHYL BUTYRATE 95%, FCC, FG	W239402	B82829	HC-24SI8646
347. ALPHA-AMYL CINNAMALDEHYDE, MIXTURE OF CIS AND TRANS, 97%, FG	W206105	A77069	HC-24SI5791

Muhammad Munir Chaudry

Muhammad Munir Chaudry, Ph.D.
President



This certificate is valid until **July 31, 2025** and subject to renewal at that time.





المجلس الإسلامي الأمريكي للغذاء و التغذية

THE ISLAMIC FOOD AND NUTRITION COUNCIL OF AMERICA

IFANCA HALAL PRODUCT CERTIFICATE شهادة حلال

This is to certify that the following product(s) have been produced under the supervision of the Islamic Food and Nutrition Council of America (IFANCA). The production facility as well as component ingredients have been reviewed and approved. The product(s) are in compliance with the halal requirements under Islamic laws.

Date: July 23, 2024

Document #: 4739.15720.II240011

Company Name & Address: **Sigma-Aldrich Corporation** 6000 N. Teutonia Avenue Milwaukee, Wisconsin 53209 USA

Plant Name & Address: **Aldrich Chemical Company, LLC** 5485 County Road V Sheboygan Falls, Wisconsin 53085 USA

Product Name	Product Code	Halal-ID	Product Certificate #
348. ALPHA-ANGELICA LACTONE 98%, FG	W329304	A77798	HC-24SI5701
349. ALPHA-HEXYLCINNAMALDEHYDE	W256900	C56641	HC-24SI6F07
350. ALPHA-IONONE 90%	W259403	A14963	HC-24SICS69
351. ALPHA-IONONE NATURAL, 84%	W259411	B11046	HC-24SI3250
352. ALPHA-ISOMETHYL IONONE	W271410	C29323	HC-24SIMB24
353. ALPHA-METHYLBENZYL ACETATE 98%, FCC, FG	W268402	A29216	HC-24SIAY65
354. ALPHA-METHYLBENZYL ALCOHOL 99%, FCC	W268518	B26424	HC-24SI3E60
355. ALPHA-METHYLCINNAMALDEHYDE	W269700	C51536	HC-24SICH74
356. ALPHA-PHELLANDRENE	W285609	A96339	HC-24SI2319
357. ALPHA-PHELLANDRENE, NATURAL	W285611	C37185	HC-24SIBT40
358. ALPHA-TERPINENE 89%, FCC, FG	W355801	B85422	HC-24SI7U66
359. ALPHA-TERPINEOL MIXTURE OF ISOMERS, 96%, FCC, FG	W304506	B36081	HC-24SIMP20

Muhammad Munir Chaudry

Muhammad Munir Chaudry, Ph.D.
President



This certificate is valid until **July 31, 2025** and subject to renewal at that time.





المجلس الإسلامي الأمريكي للغذاء و التغذية
THE ISLAMIC FOOD AND NUTRITION COUNCIL OF AMERICA
IFANCA HALAL PRODUCT CERTIFICATE شهادة حلال

This is to certify that the following product(s) have been produced under the supervision of the Islamic Food and Nutrition Council of America (IFANCA). The production facility as well as component ingredients have been reviewed and approved. The product(s) are in compliance with the halal requirements under Islamic laws.

Date: July 23, 2024

Document #: 4739.15720.II240011

Company Name & Address: **Sigma-Aldrich Corporation** 6000 N. Teutonia Avenue Milwaukee, Wisconsin 53209 USA

Plant Name & Address: **Aldrich Chemical Company, LLC** 5485 County Road V Sheboygan Falls, Wisconsin 53085 USA

Product Name	Product Code	Halal-ID	Product Certificate #
360. ALPHA-TERPINEOL NATURAL, 96%, FCC, FG	W304522	A97018	HC-24SI3226
361. ALPHA-TERPINYL ACETATE, 95%, FG	W304799	B30622	HC-24SICH86
362. AMMONIUM SULFIDE SOLUTION 20 WT. % IN H2O	W205303	A31891	HC-24SI5N87
363. AMYL ACETATE	W504009	C44277	HC-24SIA907
364. AMYL BUTYRATE MIXTURE OF ISOMERS, 98%, FG	W205915	B21391	HC-24SIV724
365. AMYL FORMATE 95%, FG	W206806	A31867	HC-24SI5K86
366. AMYL HEXANOATE 98%, FG	W207403	A58167	HC-24SIFG49
367. AMYRIS OIL	W517100	B49175	HC-24SIUR10
368. ANETHOL, NATURAL	W208620	C10278	HC-24SI2M94
369. ANISOLE	W209708	C29070	HC-24SI5F93
370. ANISYL ACETATE 97%, FCC, FG	W209805	B44025	HC-24SITD72
371. ANISYL ACETATE, NATURAL	W209890	C20177	HC-24SISS20

Muhammad Munir Chaudry

Muhammad Munir Chaudry, Ph.D.
President



This certificate is valid until **July 31, 2025** and subject to renewal at that time.





المجلس الإسلامي الأمريكي للغذاء و التغذية
THE ISLAMIC FOOD AND NUTRITION COUNCIL OF AMERICA
IFANCA HALAL PRODUCT CERTIFICATE شهادة حلال

This is to certify that the following product(s) have been produced under the supervision of the Islamic Food and Nutrition Council of America (IFANCA). The production facility as well as component ingredients have been reviewed and approved. The product(s) are in compliance with the halal requirements under Islamic laws.

Date: July 23, 2024

Document #: 4739.15720.II240011

Company Name & Address: **Sigma-Aldrich Corporation** 6000 N. Teutonia Avenue Milwaukee, Wisconsin 53209 USA

Plant Name & Address: **Aldrich Chemical Company, LLC** 5485 County Road V Sheboygan Falls, Wisconsin 53085 USA

Product Name	Product Code	Halal-ID	Product Certificate #
372. ANISYL ALCOHOL 98%, FCC, FG	W209902	A17532	HC-24SID288
373. ANISYL ALCOHOL NATURAL, 98%, FG	W209910	A54743	HC-24SIFN25
374. ANISYL FORMATE 90%, FCC, FG	W210102	A75097	HC-24SIZK75
375. ANISYL PHENYLACETATE	W374008	C54819	HC-24SICG37
376. ANISYL PROPIONATE 98%, FG	W210218	A52782	HC-24SIFI16
377. AVOCADO OIL, CERTIFIED ORGANIC (NOP)	W530127	A30477	HC-24SI9R77
378. BASIL OIL, METHYL CHAVICOL TYPE, CERTIFIED ORGANIC (NOP)	W530131	B62257	HC-24SID496
379. B-DAMASCONE	W324300	C35054	HC-24SIMK72
380. BENZALDEHYDE 98%, FG, FCC	W212709	B21085	HC-24SIMH20
381. BENZALDEHYDE DIMETHYL ACETAL	W212806	C54812	HC-24SIFI19
382. BENZALDEHYDE NATURAL, 98%, FCC, FG	W212717	B84402	HC-24SI5D59

Muhammad Munir Chaudry

Muhammad Munir Chaudry, Ph.D.
President



This certificate is valid until **July 31, 2025** and subject to renewal at that time.



Page 34 of 99



المجلس الإسلامي الأمريكي للغذاء و التغذية

THE ISLAMIC FOOD AND NUTRITION COUNCIL OF AMERICA

IFANCA HALAL PRODUCT CERTIFICATE شهادة حلال

This is to certify that the following product(s) have been produced under the supervision of the Islamic Food and Nutrition Council of America (IFANCA). The production facility as well as component ingredients have been reviewed and approved. The product(s) are in compliance with the halal requirements under Islamic laws.

Date: July 23, 2024

Document #: 4739.15720.II240011

Company Name & Address: **Sigma-Aldrich Corporation** 6000 N. Teutonia Avenue Milwaukee, Wisconsin 53209 USA

Plant Name & Address: **Aldrich Chemical Company, LLC** 5485 County Road V Sheboygan Falls, Wisconsin 53085 USA

Product Name	Product Code	Halal-ID	Product Certificate #
383. BENZOIC ACID 99.5%, FCC, FG	W213101	B19125	HC-24SIOA01
384. BENZOIC ACID, NATURAL	W213128	C35035	HC-24SINF63
385. BENZYL ACETATE 99%, FCC, FG	W213500	B79837	HC-24SIZB23
386. BENZYL ACETATE NATURAL, 99%, FCC, FG	W213519	B40499	HC-24SI7X44
387. BENZYL ALCOHOL 99%, FCC, FG	W213705	A30474	HC-24SI9M76
388. BENZYL ALCOHOL NATURAL, 98%, FG	W213713	B29827	HC-24SIBW80
389. BENZYL BENZOATE 99%, FCC	W213802	B49509	HC-24SIUC12
390. BENZYL BENZOATE NATURAL, 99%, FCC, FG	W213810	B16051	HC-24SI1A82
391. BENZYL BUTYRATE 98%, FCC, FG	W214000	B69641	HC-24SISM54
392. BENZYL BUTYRATE NATURAL, 98%, FCC	W214019	A29284	HC-24SIAO67
393. BENZYL CINNAMATE 98%	W214205	B46260	HC-24SIV589
394. BENZYL DISULFIDE 98%	W361704	A55831	HC-24SIEV36

Muhammad Munir Chaudry

Muhammad Munir Chaudry, Ph.D.
President



This certificate is valid until **July 31, 2025** and subject to renewal at that time.





المجلس الإسلامي الأمريكي للغذاء و التغذية
THE ISLAMIC FOOD AND NUTRITION COUNCIL OF AMERICA
IFANCA HALAL PRODUCT CERTIFICATE شهادة حلال

This is to certify that the following product(s) have been produced under the supervision of the Islamic Food and Nutrition Council of America (IFANCA). The production facility as well as component ingredients have been reviewed and approved. The product(s) are in compliance with the halal requirements under Islamic laws.

Date: July 23, 2024

Document #: 4739.15720.II240011

Company Name & Address: **Sigma-Aldrich Corporation** 6000 N. Teutonia Avenue Milwaukee, Wisconsin 53209 USA

Plant Name & Address: **Aldrich Chemical Company, LLC** 5485 County Road V Sheboygan Falls, Wisconsin 53085 USA

Product Name	Product Code	Halal-ID	Product Certificate #
395. BENZYL ETHER	W237108	C39739	HC-24SICI73
396. BENZYL FORMATE	W214507	C39734	HC-24SI9C80
397. BENZYL FORMATE, NATURAL	W214520	C20178	HC-24SI8H59
398. BENZYL ISOBUTYRATE 97%, FCC, FG	W214108	A25888	HC-24SIDU36
399. Benzyl phenylacetate =98%, FCC, FG	W214906	C16103	HC-24SINN68
400. BENZYL PROPIONATE	W215000	C45645	HC-24SIUZ82
401. BENZYL SALICYLATE	W215104	C35041	HC-24SIBZ74
402. BENZYLIDENEACETONE 98%, FG	W288101	A37837	HC-24SIYA28
403. BERGAMOT OIL, ITALIAN	W215309	C47737	HC-24SI6U06
404. BETA IONONE PREDOMINANTLY TRANS, 97%, FCC, FG	W259500	C87822	HC-24SI6703
405. BETA-ALANINE	W325201	C49390	HC-24SIZF98
406. BETA-CARYOPHYLLENE 80%, FCC	W225207	B86970	HC-24SI3L80

Muhammad Munir Chaudry

Muhammad Munir Chaudry, Ph.D.
President



This certificate is valid until **July 31, 2025** and subject to renewal at that time.





المجلس الإسلامي الأمريكي للغذاء و التغذية
THE ISLAMIC FOOD AND NUTRITION COUNCIL OF AMERICA
IFANCA HALAL PRODUCT CERTIFICATE شهادة حلال

This is to certify that the following product(s) have been produced under the supervision of the Islamic Food and Nutrition Council of America (IFANCA). The production facility as well as component ingredients have been reviewed and approved. The product(s) are in compliance with the halal requirements under Islamic laws.

Date: July 23, 2024

Document #: 4739.15720.II240011

Company Name & Address: **Sigma-Aldrich Corporation** 6000 N. Teutonia Avenue Milwaukee, Wisconsin 53209 USA

Plant Name & Address: **Aldrich Chemical Company, LLC** 5485 County Road V Sheboygan Falls, Wisconsin 53085 USA

Product Name	Product Code	Halal-ID	Product Certificate #
407. BETA-CYCLOCITRAL 95%, FG	W363928	A96541	HC-24SI2S23
408. BETA-IONONE, NATURAL (US)	W259525	C35048	HC-24SI4H10
409. BIRCH OIL, SWEET, NATURAL	W215481	C53462	HC-24SI6S14
410. BIS(2-METHYL-3-FURYL) DISULFIDE 98%, FG	W325900	B78302	HC-24SI1N17
411. BIS(METHYLTHIO)METHANE 99%, FG	W387800	B35571	HC-24SIPH19
412. BOIS DE ROSE	W215600	C47738	HC-24SIAC31
413. BUTAN-3-ONE-2-YL BUTANOATE	W333200	C10282	HC-24SI9B71
414. BUTAN-3-ONE-2-YL BUTANOATE 98%, FCC	W333204	B38138	HC-24SIN428
415. BUTYL (S)-(-)-LACTATE 97%	W220507	B69484	HC-24SI4352
416. BUTYL (S)-(-)-LACTATE, 97%, FG	W220500	A86199	HC-24SIC452
417. BUTYL 10-UNDECENOATE	W221600	C42587	HC-24SIDG99
418. BUTYL 2-METHYLBUTYRATE 97%, FG	W339318	B13294	HC-24SI4K64

Muhammad Munir Chaudry

Muhammad Munir Chaudry, Ph.D.
President



This certificate is valid until **July 31, 2025** and subject to renewal at that time.





المجلس الإسلامي الأمريكي للغذاء و التغذية

THE ISLAMIC FOOD AND NUTRITION COUNCIL OF AMERICA

IFANCA HALAL PRODUCT CERTIFICATE شهادة حلال

This is to certify that the following product(s) have been produced under the supervision of the Islamic Food and Nutrition Council of America (IFANCA). The production facility as well as component ingredients have been reviewed and approved. The product(s) are in compliance with the halal requirements under Islamic laws.

Date: July 23, 2024

Document #: 4739.15720.II240011

Company Name & Address: **Sigma-Aldrich Corporation** 6000 N. Teutonia Avenue Milwaukee, Wisconsin 53209 USA

Plant Name & Address: **Aldrich Chemical Company, LLC** 5485 County Road V Sheboygan Falls, Wisconsin 53085 USA

Product Name	Product Code	Halal-ID	Product Certificate #
419. BUTYL ACETATE	W217409	C44259	HC-24SIGR18
420. BUTYL ACETATE NATURAL, 98%, FG	W217417	B64754	HC-24SIAR21
421. BUTYL ALCOHOL 99.9%, FCC, FG	W217820	C87817	HC-24SI5F45
422. Butyl Alcohol Natural	W217816	C29012	HC-24SIED33
423. BUTYL BENZOATE, 98%	W515000	A16526	HC-24SICG77
424. BUTYL BUTYRATE 98%, FCC, FG	W218618	B39157	HC-24SIRN40
425. BUTYL BUTYRATE, NATURAL	W218626	C44260	HC-24SIBM66
426. BUTYL BUTYRYLLACTATE 98%, FCC, FG	W219002	B29479	HC-24SIBQ77
427. BUTYL BUTYRYLLACTATE, NATURAL	W219010	C20179	HC-24SIKP03
428. BUTYL FORMATE	W219606	C51533	HC-24SI9G75
429. BUTYL HEXANOATE 98%, FG	W220108	C87818	HC-24SICD53
430. BUTYL ISOBUTYRATE	W218804	C39736	HC-24SI1468

Muhammad Munir Chaudry

Muhammad Munir Chaudry, Ph.D.
President



This certificate is valid until **July 31, 2025** and subject to renewal at that time.





المجلس الإسلامي الأمريكي للغذاء و التغذية
THE ISLAMIC FOOD AND NUTRITION COUNCIL OF AMERICA
IFANCA HALAL PRODUCT CERTIFICATE شهادة حلال

This is to certify that the following product(s) have been produced under the supervision of the Islamic Food and Nutrition Council of America (IFANCA). The production facility as well as component ingredients have been reviewed and approved. The product(s) are in compliance with the halal requirements under Islamic laws.

Date: July 23, 2024

Document #: 4739.15720.II240011

Company Name & Address: **Sigma-Aldrich Corporation** 6000 N. Teutonia Avenue Milwaukee, Wisconsin 53209 USA

Plant Name & Address: **Aldrich Chemical Company, LLC** 5485 County Road V Sheboygan Falls, Wisconsin 53085 USA

Product Name	Product Code	Halal-ID	Product Certificate #
431. BUTYL ISOVALERATE 98%, FCC, FG	W221805	B20652	HC-24SIOL16
432. BUTYL PROPIONATE	W221104	C47739	HC-24SIA478
433. BUTYLAMINE 99%	W313009	B58157	HC-24SILT71
434. BUTYLATED HYDROXYANISOLE 99%, FCC	W218308	A86672	HC-24SI7L56
435. BUTYRALDEHYDE, NATURAL	W221910	C29110	HC-24SIBJ35
436. BUTYRIC ACID NATURAL, 99%, FCC, FG	W222119	B80835	HC-24SIA531
437. BUTYRIC ACID, 99%, FG	W222100	B71311	HC-24SI9E68
438. CAFFEINE ANHYDROUS, FCC, 99%	W222402	B19191	HC-24SIN705
439. CAMPHENE	W222910	C37174	HC-24SI9707
440. CANOLA OIL, CERTIFIED ORGANIC	W530228	C35039	HC-24SIOW67
441. CARDAMOM OIL, CERTIFIED ORGANIC (NOP)	W224123	A97340	HC-24SI3F28
442. CARROT SEED OIL, FG	W224405	A27262	HC-24SIBP45

Muhammad Munir Chaudry

Muhammad Munir Chaudry, Ph.D.
President



This certificate is valid until **July 31, 2025** and subject to renewal at that time.





المجلس الإسلامي الأمريكي للغذاء و التغذية

THE ISLAMIC FOOD AND NUTRITION COUNCIL OF AMERICA

IFANCA HALAL PRODUCT CERTIFICATE شهادة حلال

This is to certify that the following product(s) have been produced under the supervision of the Islamic Food and Nutrition Council of America (IFANCA). The production facility as well as component ingredients have been reviewed and approved. The product(s) are in compliance with the halal requirements under Islamic laws.

Date: July 23, 2024

Document #: 4739.15720.II240011

Company Name & Address: **Sigma-Aldrich Corporation** 6000 N. Teutonia Avenue Milwaukee, Wisconsin 53209 USA

Plant Name & Address: **Aldrich Chemical Company, LLC** 5485 County Road V Sheboygan Falls, Wisconsin 53085 USA

Product Name	Product Code	Halal-ID	Product Certificate #
443. CARVACROL 98%, FCC, FG	W224502	B71542	HC-24SI9A71
444. CARVACROL, NATURAL	W224511	C36275	HC-24SIXH74
445. CASSIA OIL	W225800	B71238	HC-24SIHQ66
446. CASTOR OIL, CERTIFIED ORGANIC (NOP)	W226318	B24577	HC-24SIJ847
447. CEDARWOOD OIL, ATLAS TYPE, CERTIFIED ORGANIC (NOP)	W530143	B60381	HC-24SI4982
448. CHAMOMILE MOROCCO	W521302	C35036	HC-24SIPH07
449. CHAMOMILE OIL, GERMAN, CERTIFIED ORGANIC (NOP)	W227315	A19847	HC-24SIAQ05
450. CHOLINE CHLORIDE, 98%, FCC	W450001	B32384	HC-24SIDN93
451. CINNAMALDEHYDE NATURAL, 95%, FG	W228613	A21501	HC-24SIBR17
452. CINNAMIC ALCOHOL, NATURAL	W229411	C36278	HC-24SIX481
453. CINNAMON BARK OIL FCC, FG	W229105	B21710	HC-24SIU226

Muhammad Munir Chaudry

Muhammad Munir Chaudry, Ph.D.
President



This certificate is valid until **July 31, 2025** and subject to renewal at that time.





المجلس الإسلامي الأمريكي للغذاء و التغذية
THE ISLAMIC FOOD AND NUTRITION COUNCIL OF AMERICA
IFANCA HALAL PRODUCT CERTIFICATE شهادة حلال

This is to certify that the following product(s) have been produced under the supervision of the Islamic Food and Nutrition Council of America (IFANCA). The production facility as well as component ingredients have been reviewed and approved. The product(s) are in compliance with the halal requirements under Islamic laws.

Date: July 23, 2024

Document #: 4739.15720.II240011

Company Name & Address: **Sigma-Aldrich Corporation** 6000 N. Teutonia Avenue Milwaukee, Wisconsin 53209 USA

Plant Name & Address: **Aldrich Chemical Company, LLC** 5485 County Road V Sheboygan Falls, Wisconsin 53085 USA

Product Name	Product Code	Halal-ID	Product Certificate #
454. CINNAMON BARK OIL, CERTIFIED ORGANIC (NOP)	W229140	B29555	HC-24SIBI78
455. CINNAMON LEAF OIL, CERTIFIED ORGANIC (NOP)	W229208	B52053	HC-24SIP734
456. CINNAMON OIL, CEYLON TYPE	W229202	B95984	HC-24SI8109
457. CINNAMYL ACETATE	W229318	C47740	HC-24SIAY95
458. CINNAMYL ACETATE, NATURAL	W229301	C36277	HC-24SIGC11
459. CINNAMYL ALCOHOL 98%	W229407	B68364	HC-24SI7K41
460. CINNAMYL BENZOATE, 98%, FG	W470301	A89117	HC-24SI8E69
461. CINNAMYL CINNAMATE, MIXTURE OF ISOMERS	W229806	C47741	HC-24SI6569
462. Cinnamyl Isobutyrate	W229709	C29013	HC-24SIKE53
463. CIS-2-HEXEN-1-OL 96%, FG	W392405	B33342	HC-24SISC03
464. CIS-2-NONEN-1-OL	W372005	C56645	HC-24SI9G09
465. CIS-2-PENTEN-1-OL	W430500	C42600	HC-24SIKF57

Muhammad Munir Chaudry

Muhammad Munir Chaudry, Ph.D.
President



This certificate is valid until **July 31, 2025** and subject to renewal at that time.





المجلس الإسلامي الأمريكي للغذاء و التغذية

THE ISLAMIC FOOD AND NUTRITION COUNCIL OF AMERICA

IFANCA HALAL PRODUCT CERTIFICATE شهادة حلال

This is to certify that the following product(s) have been produced under the supervision of the Islamic Food and Nutrition Council of America (IFANCA). The production facility as well as component ingredients have been reviewed and approved. The product(s) are in compliance with the halal requirements under Islamic laws.

Date: July 23, 2024

Document #: 4739.15720.II240011

Company Name & Address: **Sigma-Aldrich Corporation** 6000 N. Teutonia Avenue Milwaukee, Wisconsin 53209 USA

Plant Name & Address: **Aldrich Chemical Company, LLC** 5485 County Road V Sheboygan Falls, Wisconsin 53085 USA

Product Name	Product Code	Halal-ID	Product Certificate #
466. CIS-3,7-DIMETHYL-2,6-OCTADIEN-1-OL	W277002	C39748	HC-24SIMY21
467. CIS-3-HEPTEN-1-OL	W519030	C56648	HC-24SI6Z89
468. CIS-3-HEXEN-1-OL 98%, FCC, FG	W256307	A41215	HC-24SIZT46
469. CIS-3-HEXEN-1-OL NATURAL, 98%, FCC, FG	W256323	A23218	HC-24SI8926
470. CIS-3-HEXENAL SOLUTION 50% IN TRIACETIN	W256102	A20251	HC-24SIA708
471. cis-3-Hexenyl 2-Methylbutanoate	W349700	C41922	HC-24SI7M39
472. CIS-3-HEXENYL 3-METHYLBUTANOATE 97%, FCC, FG	W349801	B38841	HC-24SI7236
473. CIS-3-HEXENYL ACETATE 98%, FCC, FG	W317101	A81084	HC-24SIEY22
474. CIS-3-HEXENYL ACETATE NATURAL	W317128	A95025	HC-24SI6T09
475. CIS-3-HEXENYL ACETATE, NATURAL	W317100	C29509	HC-24SICV85
476. CIS-3-HEXENYL BENZOATE	W368806	C42598	HC-24SI1E54
477. CIS-3-HEXENYL BUTYRATE 98%, FG	W340200	B28072	HC-24SIZW71

Muhammad Munir Chaudry

Muhammad Munir Chaudry, Ph.D.
President



This certificate is valid until **July 31, 2025** and subject to renewal at that time.



Page 42 of 99



المجلس الإسلامي الأمريكي للغذاء و التغذية
THE ISLAMIC FOOD AND NUTRITION COUNCIL OF AMERICA
IFANCA HALAL PRODUCT CERTIFICATE شهادة حلال

This is to certify that the following product(s) have been produced under the supervision of the Islamic Food and Nutrition Council of America (IFANCA). The production facility as well as component ingredients have been reviewed and approved. The product(s) are in compliance with the halal requirements under Islamic laws.

Date: July 23, 2024

Document #: 4739.15720.II240011

Company Name & Address: **Sigma-Aldrich Corporation** 6000 N. Teutonia Avenue Milwaukee, Wisconsin 53209 USA

Plant Name & Address: **Aldrich Chemical Company, LLC** 5485 County Road V Sheboygan Falls, Wisconsin 53085 USA

Product Name	Product Code	Halal-ID	Product Certificate #
478. CIS-3-HEXENYL CIS-3-HEXENOATE 95%, FG	W368903	A56022	HC-24SIE238
479. CIS-3-HEXENYL FORMATE	W335304	C42596	HC-24SI6343
480. CIS-3-HEXENYL HEXANOATE 98%, FG	W340308	A99561	HC-24SI6F41
481. CIS-3-HEXENYL ISOBUTYRATE 98%, FG	W392901	A91511	HC-24SI9G85
482. CIS-3-HEXENYL LACTATE 98%, FG	W369004	A38324	HC-24SIUO32
483. CIS-3-HEXENYL PHENYLACETATE 99%	W363308	B20456	HC-24SINU12
484. CIS-3-HEXENYL PROPIONATE	W393304	C42599	HC-24SI9J14
485. CIS-3-HEXENYL TIGLATE	W393118	C44276	HC-24SIE214
486. CIS-4-DECENAL 93%, STABILIZED	W326402	B21092	HC-24SIN721
487. CIS-4-HEPTENAL 98%, FCC, FG	W328901	B60926	HC-24SICR87
488. CIS-5-OCTEN-1-OL 98%	W372218	A60734	HC-24SIE766
489. CIS-6-NONEN-1-OL 95%, FG	W346500	A14331	HC-24SI9N64

Muhammad Munir Chaudry

Muhammad Munir Chaudry, Ph.D.
President



This certificate is valid until **July 31, 2025** and subject to renewal at that time.



Page 43 of 99



المجلس الإسلامي الأمريكي للغذاء و التغذية
THE ISLAMIC FOOD AND NUTRITION COUNCIL OF AMERICA
IFANCA HALAL PRODUCT CERTIFICATE شهادة حلال

This is to certify that the following product(s) have been produced under the supervision of the Islamic Food and Nutrition Council of America (IFANCA). The production facility as well as component ingredients have been reviewed and approved. The product(s) are in compliance with the halal requirements under Islamic laws.

Date: July 23, 2024

Document #: 4739.15720.II240011

Company Name & Address: **Sigma-Aldrich Corporation** 6000 N. Teutonia Avenue Milwaukee, Wisconsin 53209 USA

Plant Name & Address: **Aldrich Chemical Company, LLC** 5485 County Road V Sheboygan Falls, Wisconsin 53085 USA

Product Name	Product Code	Halal-ID	Product Certificate #
490. CIS-6-NONENAL 95%, FG	W358002	A62888	HC-24SIAU88
491. CIS-JASMONE	W319600	B44938	HC-24SISX79
492. CITRAL DIETHYL ACETAL 93%	W230405	B52246	HC-24SIQI36
493. CITRAL DIMETHYL ACETAL 90%	W230502	A60477	HC-24SIDO64
494. CITRAL MIXTURE OF CIS AND TRANS, 96%, FG	W230308	A26988	HC-24SIBB42
495. CITRAL, NATURAL	W230316	C37175	HC-24SIQV35
496. CITRIC ACID NATURAL, 99.5%, FCC, FG	W230633	C87819	HC-24SINB29
497. CITRIC ACID, 99.5%, FCC, FG	W230618	B46148	HC-24SIVP86
498. CITRONELLA OIL, JAVA, CERTIFIED ORGANIC (NOP)	W230840	A42469	HC-24SI1758
499. CITRONELLA OIL, JAVA, NATURAL	W230812	C53463	HC-24SIY261
500. CITRONELLOL, MIXTURE OF ISOMERS, NATURAL	W230915	C36279	HC-24SIBP68
501. CITRONELLYL ACETATE	W231118	C42589	HC-24SIA754

Muhammad Munir Chaudry

Muhammad Munir Chaudry, Ph.D.
President



This certificate is valid until **July 31, 2025** and subject to renewal at that time.





المجلس الإسلامي الأمريكي للغذاء و التغذية
THE ISLAMIC FOOD AND NUTRITION COUNCIL OF AMERICA
IFANCA HALAL PRODUCT CERTIFICATE شهادة حلال

This is to certify that the following product(s) have been produced under the supervision of the Islamic Food and Nutrition Council of America (IFANCA). The production facility as well as component ingredients have been reviewed and approved. The product(s) are in compliance with the halal requirements under Islamic laws.

Date: July 23, 2024

Document #: 4739.15720.II240011

Company Name & Address: **Sigma-Aldrich Corporation** 6000 N. Teutonia Avenue Milwaukee, Wisconsin 53209 USA

Plant Name & Address: **Aldrich Chemical Company, LLC** 5485 County Road V Sheboygan Falls, Wisconsin 53085 USA

Product Name	Product Code	Halal-ID	Product Certificate #
502. CLOVE BUD OIL NATURAL (US), FCC, FG	W232300	B51830	HC-24SIPW30
503. CLOVE BUD OIL, CERTIFIED ORGANIC (NOP)	W232314	A71757	HC-24SIAS53
504. COCOA EXTRACT, BLEND, FG	W584649	B65604	HC-24SIBW27
505. COCONUT OIL, VIRGIN, CERTIFIED ORGANIC (NOP)	W530155	B15645	HC-24SI1V80
506. COFFEE OIL, ROASTED, NATURAL (US)	W530618	C35037	HC-24SIDK89
507. COPAIBA BALSAM OIL	W521809	A41463	HC-24SIZ949
508. CORIANDER OIL, NATURAL	W233404	C53464	HC-24SIZK21
509. CORNMINT OIL, CERTIFIED ORGANIC (NOP)	W421906	B48848	HC-24SIUZ06
510. COUMARIN	W526509	C42602	HC-24SIG328
511. CUMINALDEHYDE 98%, FCC	W234109	B14973	HC-24SIYR76
512. CYCLOHEXYL ACETATE 98%, FG	W234907	A68608	HC-24SIDY31
513. CYCLOHEXYL BUTYRATE	W235105	C44262	HC-24SI2X34

Muhammad Munir Chaudry

Muhammad Munir Chaudry, Ph.D.
President



This certificate is valid until **July 31, 2025** and subject to renewal at that time.





المجلس الإسلامي الأمريكي للغذاء و التغذية

THE ISLAMIC FOOD AND NUTRITION COUNCIL OF AMERICA

IFANCA HALAL PRODUCT CERTIFICATE شهادة حلال

This is to certify that the following product(s) have been produced under the supervision of the Islamic Food and Nutrition Council of America (IFANCA). The production facility as well as component ingredients have been reviewed and approved. The product(s) are in compliance with the halal requirements under Islamic laws.

Date: July 23, 2024

Document #: 4739.15720.II240011

Company Name & Address: **Sigma-Aldrich Corporation** 6000 N. Teutonia Avenue Milwaukee, Wisconsin 53209 USA

Plant Name & Address: **Aldrich Chemical Company, LLC** 5485 County Road V Sheboygan Falls, Wisconsin 53085 USA

Product Name	Product Code	Halal-ID	Product Certificate #
514. CYCLOPENTANETHIOL 97%	W326208	B38236	HC-24SIND30
515. CYCLOPENTANONE 99%, FG	W391018	A83289	HC-24SIB533
516. D-CAMPHOR	W223023	C35042	HC-24SIED15
517. D-CAMPHOR	W223018	C51534	HC-24SIPB57
518. D-CARVONE	W224928	C39737	HC-24SI8260
519. D-DIHYDROCARVONE, MIXTURE OF ISOMERS	W356506	C39751	HC-24SII865
520. D-DIHYDROCARVONE, NATURAL	W356511	C35053	HC-24SIDD17
521. DECANAL	W236209	C39738	HC-24SIEP28
522. DECANAL, NATURAL	W236217	C36280	HC-24SIDV51
523. DECANOIC ACID 98%, FCC, FG	W236403	B58375	HC-24SIM373
524. DECANOIC ACID NATURAL, 98%, FCC, FG	W236411	B79908	HC-24SI8M24
525. DELTA-DECALACTONE 98%, FCC, FG	W236101	B20919	HC-24SIL619

Muhammad Munir Chaudry

Muhammad Munir Chaudry, Ph.D.
President



This certificate is valid until **July 31, 2025** and subject to renewal at that time.





المجلس الإسلامي الأمريكي للغذاء و التغذية
THE ISLAMIC FOOD AND NUTRITION COUNCIL OF AMERICA
IFANCA HALAL PRODUCT CERTIFICATE شهادة حلال

This is to certify that the following product(s) have been produced under the supervision of the Islamic Food and Nutrition Council of America (IFANCA). The production facility as well as component ingredients have been reviewed and approved. The product(s) are in compliance with the halal requirements under Islamic laws.

Date: July 23, 2024

Document #: 4739.15720.II240011

Company Name & Address: **Sigma-Aldrich Corporation** 6000 N. Teutonia Avenue Milwaukee, Wisconsin 53209 USA

Plant Name & Address: **Aldrich Chemical Company, LLC** 5485 County Road V Sheboygan Falls, Wisconsin 53085 USA

Product Name	Product Code	Halal-ID	Product Certificate #
526. DELTA-DECALACTONE NATURAL, 98%, FCC, FG	W236128	A47681	HC-24SIJ388
527. DELTA-DODECALACTONE MIXTURE OF ISOMERS, 98%, FCC, FG	W240109	A10469	HC-24SIE234
528. DELTA-DODECALACTONE, MIXTURE OF ISOMERS, NATURAL, 98%, FG	W240115	B50662	HC-24SISW21
529. DELTA-HEXALACTONE	W316700	C42594	HC-24SI2S30
530. DELTA-NONALACTONE 98%, FCC, FG	W335606	B28381	HC-24SIZ472
531. DELTA-TETRADECALACTONE 98%, FG	W359009	A42738	HC-24SIYQ60
532. DELTA-TETRADECALACTONE, NATURAL	W359020	C36290	HC-24SI6E81
533. DELTA-UNDECALACTONE, 97%, FG	W329401	B23295	HC-24SIL135
534. DIETHYL MALATE 97%, FG	W237418	A14166	HC-24SI9963
535. DIETHYL MALONATE 98%	W237507	B27853	HC-24SIYX69
536. DIETHYL SEBACATE 98%, FCC, FG	W237604	B29929	HC-24SIC682

Muhammad Munir Chaudry

Muhammad Munir Chaudry, Ph.D.
President



This certificate is valid until **July 31, 2025** and subject to renewal at that time.





المجلس الإسلامي الأمريكي للغذاء و التغذية
THE ISLAMIC FOOD AND NUTRITION COUNCIL OF AMERICA
IFANCA HALAL PRODUCT CERTIFICATE شهادة حلال

This is to certify that the following product(s) have been produced under the supervision of the Islamic Food and Nutrition Council of America (IFANCA). The production facility as well as component ingredients have been reviewed and approved. The product(s) are in compliance with the halal requirements under Islamic laws.

Date: July 23, 2024

Document #: 4739.15720.II240011

Company Name & Address: **Sigma-Aldrich Corporation** 6000 N. Teutonia Avenue Milwaukee, Wisconsin 53209 USA

Plant Name & Address: **Aldrich Chemical Company, LLC** 5485 County Road V Sheboygan Falls, Wisconsin 53085 USA

Product Name	Product Code	Halal-ID	Product Certificate #
537. DIETHYL SUCCINATE 99%, FCC, FG	W237701	B84448	HC-24SIAP60
538. DIETHYL SUCCINATE, NATURAL, =99%, FG	W237712	B52944	HC-24SIQ938
539. DIETHYL SULFIDE	W382501	C56646	HC-24SIA689
540. DIHYDRO-BETA-IONONE	W362603	C54818	HC-24SI3R29
541. DIHYDROCOUMARIN 99%, FCC, FG	W238104	B54212	HC-24SIO746
542. DIHYDROJASMONE 98%	W376302	B24046	HC-24SIQO42
543. DIMETHYL DISULFIDE, 98%, FG	W353604	B76746	HC-24SICB07
544. DIMETHYL PHENYL ETHYL CARBINYL ISOBUTYRATE	W273601	A40050	HC-24SIUD40
545. DIMETHYL SUCCINATE	W239607	C44263	HC-24SIUH41
546. DIMETHYL SULFIDE NATURAL, 99%, FCC, FG	W274623	A29903	HC-24SI8O71
547. Dimethyl Sulfide, Redistilled	W274615	C41914	HC-24SIDA32
548. DIMETHYL SULFOXIDE 99%	W387509	A29885	HC-24SI8C70

Muhammad Munir Chaudry

Muhammad Munir Chaudry, Ph.D.
President



This certificate is valid until **July 31, 2025** and subject to renewal at that time.





المجلس الإسلامي الأمريكي للغذاء و التغذية

THE ISLAMIC FOOD AND NUTRITION COUNCIL OF AMERICA

IFANCA HALAL PRODUCT CERTIFICATE شهادة حلال

This is to certify that the following product(s) have been produced under the supervision of the Islamic Food and Nutrition Council of America (IFANCA). The production facility as well as component ingredients have been reviewed and approved. The product(s) are in compliance with the halal requirements under Islamic laws.

Date: July 23, 2024

Document #: 4739.15720.II240011

Company Name & Address: **Sigma-Aldrich Corporation** 6000 N. Teutonia Avenue Milwaukee, Wisconsin 53209 USA

Plant Name & Address: **Aldrich Chemical Company, LLC** 5485 County Road V Sheboygan Falls, Wisconsin 53085 USA

Product Name	Product Code	Halal-ID	Product Certificate #
549. DIMETHYL TRISULFIDE 98%, FG	W327506	B64729	HC-24SIAL19
550. DIPHENYL ETHER, 99%, FG	W366706	A85210	HC-24SIZJ48
551. DISODIUM SUCCINATE 98%	W327700	B73688	HC-24SIF883
552. DL-ALANINE 99%, FCC, FG	W381810	A30662	HC-24SI9679
553. DL-Menthol	W266507	C29015	HC-24SISL19
554. DL-MENTHYL ACETATE 97%, FG	W266809	C87825	HC-24SIDT05
555. DL-METHIONINE	W330108	C45650	HC-24SICW54
556. DL-VALINE	W344400	C53468	HC-24SI6L83
557. D-Octalactone, Mixture Of Isomers	W321405	C41920	HC-24SI2J88
558. D-RIBOSE, NATURAL	W379312	B88298	HC-24SICQ13
559. d-Tridecalactone	W468501	C29022	HC-24SIGP35
560. D-Undecalactone, Mixture Of Isomers Natural	W329415	C41921	HC-24SIYP44

Muhammad Munir Chaudry

Muhammad Munir Chaudry, Ph.D.
President



This certificate is valid until **July 31, 2025** and subject to renewal at that time.





المجلس الإسلامي الأمريكي للغذاء و التغذية
THE ISLAMIC FOOD AND NUTRITION COUNCIL OF AMERICA
IFANCA HALAL PRODUCT CERTIFICATE شهادة حلال

This is to certify that the following product(s) have been produced under the supervision of the Islamic Food and Nutrition Council of America (IFANCA). The production facility as well as component ingredients have been reviewed and approved. The product(s) are in compliance with the halal requirements under Islamic laws.

Date: July 23, 2024

Document #: 4739.15720.II240011

Company Name & Address: **Sigma-Aldrich Corporation** 6000 N. Teutonia Avenue Milwaukee, Wisconsin 53209 USA

Plant Name & Address: **Aldrich Chemical Company, LLC** 5485 County Road V Sheboygan Falls, Wisconsin 53085 USA

Product Name	Product Code	Halal-ID	Product Certificate #
561. D-XYLOSE, NATURAL	W360620	B88310	HC-24SIQI38
562. ETHANETHIOL	W425800	C54820	HC-24SIIZ96
563. Ethyl 10-undecenoate	W246107	B95985	HC-24SIZ870
564. ETHYL 2-AMINOBENZOATE 96%, FCC, FG	W242101	A43851	HC-24SIY963
565. ETHYL 2-FUROATE 98%	W501301	A74454	HC-24SIZQ72
566. ETHYL 2-MERCAPTOPROPIONATE 95%, FG	W327905	B42328	HC-24SITF56
567. ETHYL 2-METHYL-1,3-DIOXOLANE-2-ACETATE	W447704	D23346	HC-24SIEH10
568. ETHYL 2-METHYL-4-PENTENOATE 98%	W348902	A77721	HC-24SI5H97
569. ETHYL 2-METHYLBUTYRATE 98%, FCC, FG	W244309	A33902	HC-24SI7298
570. ETHYL 2-METHYLBUTYRATE NATURAL, MIXTURE OF ENANTIOMERS, 98%, FCC, FG	W244317	B80172	HC-24SI8Q26
571. ETHYL 2-TRANS-4-CIS-DECADIENOATE 80%	W314803	B55781	HC-24SIPY55

Muhammad Munir Chaudry

Muhammad Munir Chaudry, Ph.D.
President



This certificate is valid until **July 31, 2025** and subject to renewal at that time.





المجلس الإسلامي الأمريكي للغذاء و التغذية
THE ISLAMIC FOOD AND NUTRITION COUNCIL OF AMERICA
IFANCA HALAL PRODUCT CERTIFICATE شهادة حلال

This is to certify that the following product(s) have been produced under the supervision of the Islamic Food and Nutrition Council of America (IFANCA). The production facility as well as component ingredients have been reviewed and approved. The product(s) are in compliance with the halal requirements under Islamic laws.

Date: July 23, 2024

Document #: 4739.15720.II240011

Company Name & Address: **Sigma-Aldrich Corporation** 6000 N. Teutonia Avenue Milwaukee, Wisconsin 53209 USA

Plant Name & Address: **Aldrich Chemical Company, LLC** 5485 County Road V Sheboygan Falls, Wisconsin 53085 USA

Product Name	Product Code	Halal-ID	Product Certificate #
572. ETHYL 2-TRANS-4-CIS-DECADIENOATE NATURAL, 95%, FG	W314811	B10661	HC-24SI6R48
573. ETHYL 2-TRANS-4-CIS-DECADIENOATE, =95%, STABILIZED, FG	W314820	A63692	HC-24SI9M93
574. ETHYL 3-(FURFURYLTHIO)PROPIONATE 98%	W367400	B38325	HC-24SINV31
575. ETHYL 3-(METHYLTHIO)PROPIONATE 99%, FCC, FG	W334308	B47105	HC-24SIVW95
576. ETHYL 3-HYDROXYBUTYRATE 97%, FG	W342807	A97903	HC-24SI3Z32
577. ETHYL 3-HYDROXYBUTYRATE, NATURAL	W342815	C20194	HC-24SID256
578. ETHYL 3-HYDROXYHEXANOATE 98%, FG	W354503	B70042	HC-24SIWC56
579. ETHYL 3-METHYL-2-OXOPENTANOATE	W490355	D23360	HC-24SIYR99
580. ETHYL 3-PHENYLGLYCIDATE MIXTURE OF CIS AND TRANS, 92%	W245402	A46401	HC-24SIXB77
581. ETHYL ACETOACETATE NATURAL, 97%, FG	W241512	B14799	HC-24SIZ173
582. ETHYL BENZOATE, NATURAL	W242217	C37177	HC-24SI7S65

Muhammad Munir Chaudry

Muhammad Munir Chaudry, Ph.D.
President



This certificate is valid until **July 31, 2025** and subject to renewal at that time.





المجلس الإسلامي الأمريكي للغذاء و التغذية
THE ISLAMIC FOOD AND NUTRITION COUNCIL OF AMERICA
IFANCA HALAL PRODUCT CERTIFICATE شهادة حلال

This is to certify that the following product(s) have been produced under the supervision of the Islamic Food and Nutrition Council of America (IFANCA). The production facility as well as component ingredients have been reviewed and approved. The product(s) are in compliance with the halal requirements under Islamic laws.

Date: July 23, 2024

Document #: 4739.15720.II240011

Company Name & Address: **Sigma-Aldrich Corporation** 6000 N. Teutonia Avenue Milwaukee, Wisconsin 53209 USA

Plant Name & Address: **Aldrich Chemical Company, LLC** 5485 County Road V Sheboygan Falls, Wisconsin 53085 USA

Product Name	Product Code	Halal-ID	Product Certificate #
583. ETHYL BICYCLO[2.2.1]HEPT-2-ENE-5-CARBOXYLATE	W479010	D23357	HC-24SI2735
584. ETHYL BUTYRATE 98%, FCC, FG	W242705	B46538	HC-24SI9Z91
585. ETHYL BUTYRATE NATURAL, 98%, FCC, FG	W242713	A28734	HC-24SIA961
586. ETHYL CINNAMATE 98%, FCC, FG	W243000	B82509	HC-24SIDF42
587. ETHYL CINNAMATE NATURAL, 95%, FG	W243019	B51250	HC-24SIRZ24
588. ETHYL DECANOATE 98%, FCC, FG	W243205	B44726	HC-24SIJS77
589. ETHYL DECANOATE, NATURAL	W243213	C20182	HC-24SIMB60
590. ETHYL FORMATE 97%, FCC, FG	W243418	A88335	HC-24SI8Q64
591. ETHYL FORMATE NATURAL, 95%, FG	W243434	A22264	HC-24SIBW22
592. ETHYL HEPTANOATE 98%, FCC, FG	W243701	B26223	HC-24SI3A58
593. ETHYL HEXANOATE 98%, FCC, FG	W243906	A77129	HC-24SI5D92
594. ETHYL HEXANOATE NATURAL, 98%, FCC, FG	W243914	B85548	HC-24SI7867

Muhammad Munir Chaudry

Muhammad Munir Chaudry, Ph.D.
President



This certificate is valid until **July 31, 2025** and subject to renewal at that time.





المجلس الإسلامي الأمريكي للغذاء و التغذية

THE ISLAMIC FOOD AND NUTRITION COUNCIL OF AMERICA

IFANCA HALAL PRODUCT CERTIFICATE شهادة حلال

This is to certify that the following product(s) have been produced under the supervision of the Islamic Food and Nutrition Council of America (IFANCA). The production facility as well as component ingredients have been reviewed and approved. The product(s) are in compliance with the halal requirements under Islamic laws.

Date: July 23, 2024

Document #: 4739.15720.II240011

Company Name & Address: **Sigma-Aldrich Corporation** 6000 N. Teutonia Avenue Milwaukee, Wisconsin 53209 USA

Plant Name & Address: **Aldrich Chemical Company, LLC** 5485 County Road V Sheboygan Falls, Wisconsin 53085 USA

Product Name	Product Code	Halal-ID	Product Certificate #
595. ETHYL ISOBUTYRATE 98%, FCC, FG	W242802	B55621	HC-24SION53
596. ETHYL ISOBUTYRATE NATURAL, 98%, FCC, FG	W242810	A40388	HC-24SIU343
597. ETHYL ISOVALERATE 98%, FCC, FG	W246301	A56928	HC-24SIE142
598. ETHYL ISOVALERATE NATURAL, 98%, FCC, FG	W246328	A80691	HC-24SIEH20
599. ETHYL LACTATE 98%, FCC, FG	W244007	B42148	HC-24SIUW55
600. ETHYL LAURATE 98%, FCC, FG	W244104	A11780	HC-24SICS44
601. ETHYL LEVULINATE 98%, FCC, FG	W244201	B46245	HC-24SIXJ88
602. ETHYL LEVULINATE, NATURAL, 98%, FG	W244220	B27240	HC-24SIHK67
603. ETHYL MALTOL 99%, FCC, FG	W348708	A78277	HC-24SID508
604. ETHYL MYRISTATE 98%, FCC, FG	W244503	A64584	HC-24SI7T99
605. ETHYL NONANOATE 98%, FCC, FG	W244708	A72686	HC-24SIBG58
606. ETHYL NONANOATE, NATURAL, 98%, FG	W244740	B54153	HC-24SIOZ45

Muhammad Munir Chaudry

Muhammad Munir Chaudry, Ph.D.
President



This certificate is valid until **July 31, 2025** and subject to renewal at that time.





المجلس الإسلامي الأمريكي للغذاء و التغذية
THE ISLAMIC FOOD AND NUTRITION COUNCIL OF AMERICA
IFANCA HALAL PRODUCT CERTIFICATE شهادة حلال

This is to certify that the following product(s) have been produced under the supervision of the Islamic Food and Nutrition Council of America (IFANCA). The production facility as well as component ingredients have been reviewed and approved. The product(s) are in compliance with the halal requirements under Islamic laws.

Date: July 23, 2024

Document #: 4739.15720.II240011

Company Name & Address: **Sigma-Aldrich Corporation** 6000 N. Teutonia Avenue Milwaukee, Wisconsin 53209 USA

Plant Name & Address: **Aldrich Chemical Company, LLC** 5485 County Road V Sheboygan Falls, Wisconsin 53085 USA

Product Name	Product Code	Halal-ID	Product Certificate #
607. ETHYL OCTANOATE 98%, FCC, FG	W244902	B62247	HC-24SIDY95
608. Ethyl Octanoate, Natural	W244910	C41909	HC-24SIBW99
609. ETHYL PALMITATE 95%, FG	W245100	A84109	HC-24SIYB41
610. ETHYL PALMITATE, NATURAL	W245115	C36282	HC-24SI1U19
611. ETHYL P-ANISATE	W242000	C10274	HC-24SI4X07
612. ETHYL P-ANISATE 97%, FCC	W242004	A34966	HC-24SIW208
613. ETHYL PHENYLACETATE 98%, FCC, FG	W245208	B29873	HC-24SIBB81
614. ETHYL PHENYLACETATE, NATURAL	W245230	C20184	HC-24SIAX04
615. ETHYL PROPIONATE 97%, FCC, FG	W245607	B62816	HC-24SIDP02
616. ETHYL PROPIONATE NATURAL, 97%, FCC, FG	W245615	B83651	HC-24SI8V51
617. ETHYL PYRUVATE 97%	W245704	A23535	HC-24SI8W27
618. ETHYL PYRUVATE NATURAL, 95%, FG	W245712	A98244	HC-24SI7535

Muhammad Munir Chaudry

Muhammad Munir Chaudry, Ph.D.
President



This certificate is valid until **July 31, 2025** and subject to renewal at that time.





المجلس الإسلامي الأمريكي للغذاء و التغذية
THE ISLAMIC FOOD AND NUTRITION COUNCIL OF AMERICA
IFANCA HALAL PRODUCT CERTIFICATE شهادة حلال

This is to certify that the following product(s) have been produced under the supervision of the Islamic Food and Nutrition Council of America (IFANCA). The production facility as well as component ingredients have been reviewed and approved. The product(s) are in compliance with the halal requirements under Islamic laws.

Date: July 23, 2024

Document #: 4739.15720.II240011

Company Name & Address: **Sigma-Aldrich Corporation** 6000 N. Teutonia Avenue Milwaukee, Wisconsin 53209 USA

Plant Name & Address: **Aldrich Chemical Company, LLC** 5485 County Road V Sheboygan Falls, Wisconsin 53085 USA

Product Name	Product Code	Halal-ID	Product Certificate #
619. ETHYL PYRUVATE, =97%, FG	W245735	B75829	HC-24SIB696
620. ETHYL SALICYLATE 99%, FCC, FG	W245801	B31814	HC-24SI1S90
621. ETHYL TIGLATE 98%	W246018	B19723	HC-24SIQ208
622. ETHYL TIGLATE, =98%, FG	W246000	A11573	HC-24SIBS42
623. ETHYL TRANS-2-BUTENOATE 96%, FG	W348600	B20507	HC-24SI8I13
624. ETHYL TRANS-2-DECENOATE 95%, FG (STABILISED)	W364118	A17436	HC-24SIFK86
625. ETHYL TRANS-3-HEXENOATE 98%, FG	W334200	A26302	HC-24SIBX40
626. ETHYL VALERATE 98%, FG	W246204	A58632	HC-24SIDL53
627. ETHYL VANILLIN 98%, FCC, FG	W246409	A62715	HC-24SIAI85
628. ETHYL VINYL KETONE	W338210	C29635	HC-24SIST33
629. ETHYL VINYL KETONE 95%, STABILIZED, FG	W338206	B55746	HC-24SISG54
630. ETHYLCYCLOPENTENOLONE,NATURAL	W315230	C10275	HC-24SIA871

Muhammad Munir Chaudry

Muhammad Munir Chaudry, Ph.D.
President



This certificate is valid until **July 31, 2025** and subject to renewal at that time.





المجلس الإسلامي الأمريكي للغذاء و التغذية
THE ISLAMIC FOOD AND NUTRITION COUNCIL OF AMERICA
IFANCA HALAL PRODUCT CERTIFICATE شهادة حلال

This is to certify that the following product(s) have been produced under the supervision of the Islamic Food and Nutrition Council of America (IFANCA). The production facility as well as component ingredients have been reviewed and approved. The product(s) are in compliance with the halal requirements under Islamic laws.

Date: July 23, 2024

Document #: 4739.15720.II240011

Company Name & Address: **Sigma-Aldrich Corporation** 6000 N. Teutonia Avenue Milwaukee, Wisconsin 53209 USA

Plant Name & Address: **Aldrich Chemical Company, LLC** 5485 County Road V Sheboygan Falls, Wisconsin 53085 USA

Product Name	Product Code	Halal-ID	Product Certificate #
631. ETHYLENE BRASSYLATE	W354309	C42597	HC-24SI4Q74
632. ETHYL-TRANS-2-OCTENOATE 98%, FG	W364304	A77513	HC-24SI5A96
633. EUCALYPTOL, NATURAL	W246506	C39742	HC-24SICM40
634. EUCALYPTUS OIL, RADIATA, CERTIFIED ORGANIC (NOP)	W530089	A31255	HC-24SI7983
635. EUGENOL 98%, FCC, FG	W246700	A29021	HC-24SIAP63
636. EUGENOL, NATURAL	W246719	C37178	HC-24SI8K13
637. Eugenyl Acetate	W246905	C32919	HC-24SITE68
638. EVENING PRIMROSE OIL, CERTIFIED ORGANIC (NOP)	W530165	A75717	HC-24SI6T79
639. FARNESENE, MIXTURE OF ISOMERS	W383902	C37190	HC-24SIBY35
640. FARNESOL MIXTURE OF ISOMERS, 95%	W247804	A58430	HC-24SIFP50
641. FENCHYL ALCOHOL	W248010	C39743	HC-24SI5B76
642. FENNEL OIL, SWEET	W248207	C49386	HC-24SI2I34

Muhammad Munir Chaudry

Muhammad Munir Chaudry, Ph.D.
President



This certificate is valid until **July 31, 2025** and subject to renewal at that time.





المجلس الإسلامي الأمريكي للغذاء و التغذية

THE ISLAMIC FOOD AND NUTRITION COUNCIL OF AMERICA

IFANCA HALAL PRODUCT CERTIFICATE شهادة حلال

This is to certify that the following product(s) have been produced under the supervision of the Islamic Food and Nutrition Council of America (IFANCA). The production facility as well as component ingredients have been reviewed and approved. The product(s) are in compliance with the halal requirements under Islamic laws.

Date: July 23, 2024

Document #: 4739.15720.II240011

Company Name & Address: **Sigma-Aldrich Corporation** 6000 N. Teutonia Avenue Milwaukee, Wisconsin 53209 USA

Plant Name & Address: **Aldrich Chemical Company, LLC** 5485 County Road V Sheboygan Falls, Wisconsin 53085 USA

Product Name	Product Code	Halal-ID	Product Certificate #
643. FENUGREEK ABSOLUTE, NATURAL	W248606	B92008	HC-24SI5M93
644. FORMIC ACID 95%, FCC, FG	W248703	B63088	HC-24SIE204
645. FRANKINCENSE OIL, CERTIFIED ORGANIC (NOP)	W281623	A92353	HC-24SI5892
646. FUMARIC ACID	W248800	C36284	HC-24SIEY92
647. Fumaric Acid Natural	W248835	C29014	HC-24SIY627
648. FURFURAL	W248908	C29218	HC-24SIJL80
649. FURFURAL, NATURAL	W248924	C29219	HC-24SI5H57
650. FURFURYL 3-METHYLBUTANOATE 98%, FG	W328308	A84221	HC-24SIYN43
651. FURFURYL ACETATE 98%, FG	W249009	B26837	HC-24SIIB62
652. FURFURYL ALCOHOL 97%, FG	W249106	B85854	HC-24SIAW70
653. FURFURYL ALCOHOL, NATURAL	W249166	C20185	HC-24SI8876
654. FURFURYL BUTYRATE 99%	W501700	B76673	HC-24SI5404

Muhammad Munir Chaudry

Muhammad Munir Chaudry, Ph.D.
President



This certificate is valid until **July 31, 2025** and subject to renewal at that time.





المجلس الإسلامي الأمريكي للغذاء و التغذية
THE ISLAMIC FOOD AND NUTRITION COUNCIL OF AMERICA
IFANCA HALAL PRODUCT CERTIFICATE شهادة حلال

This is to certify that the following product(s) have been produced under the supervision of the Islamic Food and Nutrition Council of America (IFANCA). The production facility as well as component ingredients have been reviewed and approved. The product(s) are in compliance with the halal requirements under Islamic laws.

Date: July 23, 2024

Document #: 4739.15720.II240011

Company Name & Address: **Sigma-Aldrich Corporation** 6000 N. Teutonia Avenue Milwaukee, Wisconsin 53209 USA

Plant Name & Address: **Aldrich Chemical Company, LLC** 5485 County Road V Sheboygan Falls, Wisconsin 53085 USA

Product Name	Product Code	Halal-ID	Product Certificate #
655. FURFURYL MERCAPTAN 97%, FG	W249300	A91210	HC-24SI9U82
656. FURFURYL MERCAPTAN, NATURAL	W249311	C29224	HC-24SIJG94
657. FURFURYL METHYL SULFIDE	W316008	C51539	HC-24SIFE29
658. FURFURYL PROPIONATE 98%, FG	W334618	B51339	HC-24SIV826
659. FURFURYL THIOACETATE 98%, FG	W316202	B46776	HC-24SI8Z93
660. FURFURYL THIOACETATE NATURAL	W316255	D12702	HC-24SIA476
661. FURFURYL THIOPROPIONATE 98%	W334707	A74386	HC-24SIZM71
662. GAMMA-DECALACTONE 98%, FCC, FG	W236004	A24839	HC-24SIC131
663. GAMMA-DODECALACTONE 97%, FCC, FG	W240001	A50487	HC-24SIGX07
664. GAMMA-DODECALACTONE, NATURAL	W240015	C37176	HC-24SIQC41
665. GAMMA-HEPTALACTONE 98%, FCC, FG	W253901	A53304	HC-24SIGO19
666. GAMMA-HEXALACTONE 98%, FCC, FG	W255602	A58544	HC-24SIC852

Muhammad Munir Chaudry

Muhammad Munir Chaudry, Ph.D.
President



This certificate is valid until **July 31, 2025** and subject to renewal at that time.





المجلس الإسلامي الأمريكي للغذاء و التغذية
THE ISLAMIC FOOD AND NUTRITION COUNCIL OF AMERICA
IFANCA HALAL PRODUCT CERTIFICATE شهادة حلال

This is to certify that the following product(s) have been produced under the supervision of the Islamic Food and Nutrition Council of America (IFANCA). The production facility as well as component ingredients have been reviewed and approved. The product(s) are in compliance with the halal requirements under Islamic laws.

Date: July 23, 2024

Document #: 4739.15720.II240011

Company Name & Address: **Sigma-Aldrich Corporation** 6000 N. Teutonia Avenue Milwaukee, Wisconsin 53209 USA

Plant Name & Address: **Aldrich Chemical Company, LLC** 5485 County Road V Sheboygan Falls, Wisconsin 53085 USA

Product Name	Product Code	Halal-ID	Product Certificate #
667. GAMMA-METHYL DECALACTONE	W378621	C44275	HC-24SI3799
668. GAMMA-NONALACTONE	W278106	C44268	HC-24SI7T59
669. GAMMA-NONANOIC LACTONE, NATURAL	W278140	C41917	HC-24SI7C13
670. GAMMA-OCTALACTONE 97%, FCC, FG	W279609	A76707	HC-24SI4289
671. GAMMA-OCTALACTONE NATURAL, 97%, FG	W279617	B61498	HC-24SID591
672. GAMMA-TERPINENE 95%, FG	W355909	B77473	HC-24SI4C12
673. GAMMA-TERPINENE, NATURAL	W355901	C45652	HC-24SIAG77
674. GAMMA-UNDECALACTONE 98%, FCC, FG	W309109	A93499	HC-24SI6R97
675. GAMMA-UNDECALACTONE, NATURAL (US)	W309101	C35049	HC-24SI4C51
676. GAMMA-VALEROLACTONE 98%, FCC, FG	W310301	B39047	HC-24SILW39
677. GARLIC OIL, CHINESE	W250309	C44264	HC-24SIOJ49
678. GERANIC ACID	W412101	C47743	HC-24SI9Y99

Muhammad Munir Chaudry

Muhammad Munir Chaudry, Ph.D.
President



This certificate is valid until **July 31, 2025** and subject to renewal at that time.





المجلس الإسلامي الأمريكي للغذاء و التغذية
THE ISLAMIC FOOD AND NUTRITION COUNCIL OF AMERICA
IFANCA HALAL PRODUCT CERTIFICATE شهادة حلال

This is to certify that the following product(s) have been produced under the supervision of the Islamic Food and Nutrition Council of America (IFANCA). The production facility as well as component ingredients have been reviewed and approved. The product(s) are in compliance with the halal requirements under Islamic laws.

Date: July 23, 2024

Document #: 4739.15720.II240011

Company Name & Address: **Sigma-Aldrich Corporation** 6000 N. Teutonia Avenue Milwaukee, Wisconsin 53209 USA

Plant Name & Address: **Aldrich Chemical Company, LLC** 5485 County Road V Sheboygan Falls, Wisconsin 53085 USA

Product Name	Product Code	Halal-ID	Product Certificate #
679. GERANIOL 97%, FCC, FG	W250708	A34589	HC-24SI4J05
680. GERANIOL, NATURAL	W250716	C39744	HC-24SIK955
681. GERANIUM OIL, CHINESE, NATURAL	W250813	C51535	HC-24SI6D90
682. GERANYL ACETATE FCC	W250902	A57458	HC-24SIDK45
683. GERANYL ACETATE, NATURAL	W250910	C44265	HC-24SIBN96
684. GERANYL BUTYRATE, NATURAL	W251216	C20186	HC-24SINP62
685. GERANYL ISOVALERATE 95%, FG	W251801	A51893	HC-24SIHZ10
686. Geranyl Isovalerate, US Natural	W251820	C32920	HC-24SIE740
687. GERANYL PHENYLACETATE FCC	W251607	B12209	HC-24SI3F54
688. GERANYL PROPIONATE, 95%, FCC, FG	W251704	B57603	HC-24SIN766
689. GERANYL PROPIONATE, NATURAL, 95%, FG	W251700	B71908	HC-24SI9A73
690. GINGER OIL NATURAL, FCC, FG	W252204	A92063	HC-24SI4691

Muhammad Munir Chaudry

Muhammad Munir Chaudry, Ph.D.
President



This certificate is valid until **July 31, 2025** and subject to renewal at that time.





المجلس الإسلامي الأمريكي للغذاء و التغذية
THE ISLAMIC FOOD AND NUTRITION COUNCIL OF AMERICA
IFANCA HALAL PRODUCT CERTIFICATE شهادة حلال

This is to certify that the following product(s) have been produced under the supervision of the Islamic Food and Nutrition Council of America (IFANCA). The production facility as well as component ingredients have been reviewed and approved. The product(s) are in compliance with the halal requirements under Islamic laws.

Date: July 23, 2024

Document #: 4739.15720.II240011

Company Name & Address: **Sigma-Aldrich Corporation** 6000 N. Teutonia Avenue Milwaukee, Wisconsin 53209 USA

Plant Name & Address: **Aldrich Chemical Company, LLC** 5485 County Road V Sheboygan Falls, Wisconsin 53085 USA

Product Name	Product Code	Halal-ID	Product Certificate #
691. GLYCEROL, 99%, FCC, FG	W252506	B35474	HC-24SIUF18
692. GLYCINE, NATURAL	W328712	B88306	HC-24SIB428
693. Grapefruit Oil, Florida Natural	W253006	C32921	HC-24SIBX67
694. GUAIACOL NATURAL, 98%, FG	W253200	A46856	HC-24SIXP80
695. Guaiacyl Phenyl Acetate	W253502	C32922	HC-24SIDU35
696. GUAICWOOD ACETATE	W522007	B26968	HC-24SIK664
697. HAZELNUT KETONE, NATURAL	W376112	C10280	HC-24SIAI95
698. HEPTANAL 95%, FCC, FG	W254002	A25370	HC-24SID833
699. HEPTANOIC ACID, NATURAL	W334812	C45651	HC-24SI6C95
700. HEPTYL ACETATE 98%, FG	W254703	A80618	HC-24SIDX19
701. Heptyl Acetate, Natural	W254711	C41910	HC-24SISW14
702. HEPTYL ALCOHOL 97%, FCC, FG	W254800	C87821	HC-24SI6H82

Muhammad Munir Chaudry

Muhammad Munir Chaudry, Ph.D.
President



This certificate is valid until **July 31, 2025** and subject to renewal at that time.





المجلس الإسلامي الأمريكي للغذاء و التغذية
THE ISLAMIC FOOD AND NUTRITION COUNCIL OF AMERICA
IFANCA HALAL PRODUCT CERTIFICATE شهادة حلال

This is to certify that the following product(s) have been produced under the supervision of the Islamic Food and Nutrition Council of America (IFANCA). The production facility as well as component ingredients have been reviewed and approved. The product(s) are in compliance with the halal requirements under Islamic laws.

Date: July 23, 2024

Document #: 4739.15720.II240011

Company Name & Address: **Sigma-Aldrich Corporation** 6000 N. Teutonia Avenue Milwaukee, Wisconsin 53209 USA

Plant Name & Address: **Aldrich Chemical Company, LLC** 5485 County Road V Sheboygan Falls, Wisconsin 53085 USA

Product Name	Product Code	Halal-ID	Product Certificate #
703. HEPTYL ALCOHOL, NATURAL	W254820	C10277	HC-24SIF615
704. HEPTYL FORMATE 98%	W255203	B49033	HC-24SIU808
705. Heptyl Heptanoate Natural	W434100	C32923	HC-24SICV65
706. HEXANAL 97%, FCC, FG	W255718	A72367	HC-24SIBE57
707. HEXANAL NATURAL, 95%, FG	W255726	B57669	HC-24SILF67
708. HEXANOIC ACID 98%, FCC, FG	W255904	A15114	HC-24SIBY70
709. HEXANOIC ACID NATURAL, =98%, FCC, FG	W255900	A16305	HC-24SIC276
710. HEXANOIC ACID NATURAL, 98%, FCC	W255912	B50016	HC-24SIUP17
711. HEXYL 2-METHYLBUTANOATE 95%, FCC, FG	W349909	B14710	HC-24SIZK71
712. HEXYL ACETATE 98%, FCC, FG	W256501	A11596	HC-24SICL43
713. HEXYL ACETATE NATURAL, 98%, FCC, FG	W256528	A28594	HC-24SIA560
714. HEXYL ALCOHOL	W256706	C37180	HC-24SIO547

Muhammad Munir Chaudry

Muhammad Munir Chaudry, Ph.D.
President



This certificate is valid until **July 31, 2025** and subject to renewal at that time.





المجلس الإسلامي الأمريكي للغذاء و التغذية
THE ISLAMIC FOOD AND NUTRITION COUNCIL OF AMERICA
IFANCA HALAL PRODUCT CERTIFICATE شهادة حلال

This is to certify that the following product(s) have been produced under the supervision of the Islamic Food and Nutrition Council of America (IFANCA). The production facility as well as component ingredients have been reviewed and approved. The product(s) are in compliance with the halal requirements under Islamic laws.

Date: July 23, 2024

Document #: 4739.15720.II240011

Company Name & Address: **Sigma-Aldrich Corporation** 6000 N. Teutonia Avenue Milwaukee, Wisconsin 53209 USA

Plant Name & Address: **Aldrich Chemical Company, LLC** 5485 County Road V Sheboygan Falls, Wisconsin 53085 USA

Product Name	Product Code	Halal-ID	Product Certificate #
715. HEXYL ALCOHOL NATURAL, 98%, FCC, FG	W256714	A95057	HC-24SI6110
716. HEXYL BENZOATE FG	W369101	A68197	HC-24SIEE27
717. HEXYL BUTYRATE 98%, FG	W256803	B47388	HC-24SITF98
718. HEXYL BUTYRATE NATURAL	W256811	C37181	HC-24SIRA84
719. HEXYL FORMATE	W257001	C45646	HC-24SIIR82
720. HEXYL HEXANOATE 97%, FG	W257206	A63493	HC-24SIAP91
721. HEXYL ISOBUTYRATE 98%, FG	W317209	A99332	HC-24SI7Y40
722. HEXYL ISOBUTYRATE, NATURAL (US)	W317215	C42595	HC-24SI6353
723. HEXYL PROPIONATE 97%, FG	W257605	B22856	HC-24SIMP31
724. HEXYL PROPIONATE, NATURAL (US)	W257615	C53465	HC-24SIDH97
725. HEXYL TRANS-2-BUTENOATE 95%, FCC	W335401	A27655	HC-24SIB350
726. HEXYL TRANS-2-BUTENOATE, 95%, FG	W335400	A26241	HC-24SIDK39

Muhammad Munir Chaudry

Muhammad Munir Chaudry, Ph.D.
President



This certificate is valid until **July 31, 2025** and subject to renewal at that time.





المجلس الإسلامي الأمريكي للغذاء و التغذية

THE ISLAMIC FOOD AND NUTRITION COUNCIL OF AMERICA

IFANCA HALAL PRODUCT CERTIFICATE شهادة حلال

This is to certify that the following product(s) have been produced under the supervision of the Islamic Food and Nutrition Council of America (IFANCA). The production facility as well as component ingredients have been reviewed and approved. The product(s) are in compliance with the halal requirements under Islamic laws.

Date: July 23, 2024

Document #: 4739.15720.II240011

Company Name & Address: **Sigma-Aldrich Corporation** 6000 N. Teutonia Avenue Milwaukee, Wisconsin 53209 USA

Plant Name & Address: **Aldrich Chemical Company, LLC** 5485 County Road V Sheboygan Falls, Wisconsin 53085 USA

Product Name	Product Code	Halal-ID	Product Certificate #
727. HYDROCINNAMALDEHYDE 95%, FG, FCC	W288705	B69086	HC-24SI4Z47
728. HYDROXYCITRONELLAL	W258318	C54814	HC-24SIZY71
729. HYDROXYCITRONELLAL DIMETHYL ACETAL 95%, FCC	W258504	A69303	HC-24SIEX38
730. HYSSOP OIL, CERTIFIED ORGANIC (NOP)	W259105	A42531	HC-24SI1K59
731. ISOAMYL ACETATE 95%, 70% ISOAMYL ACETATE BASIS, FCC	W205508	B65160	HC-24SIAH22
732. ISOAMYL ACETATE NATURAL, 97%, FCC, FG	W205532	B46677	HC-24SI9C92
733. ISOAMYL ALCOHOL 98%, FG	W205702	A27614	HC-24SICR49
734. ISOAMYL ALCOHOL NATURAL, 98%, FG	W205710	A37931	HC-24SIYQ29
735. ISOAMYL BENZOATE	W205818	C53460	HC-24SIPA29
736. ISOAMYL BENZOATE4-HYDROXY-2,5-DIMETHYL-3(2H)-FURANONE, 15 wt. % IN PROPYLENE GLYCOL	W317410	C53466	HC-24SI7M11
737. ISOAMYL BUTYRATE 98%, FCC, FG	W206008	A94399	HC-24SI5C02

Muhammad Munir Chaudry

Muhammad Munir Chaudry, Ph.D.
President



This certificate is valid until **July 31, 2025** and subject to renewal at that time.



Page 64 of 99



المجلس الإسلامي الأمريكي للغذاء و التغذية
THE ISLAMIC FOOD AND NUTRITION COUNCIL OF AMERICA
IFANCA HALAL PRODUCT CERTIFICATE شهادة حلال

This is to certify that the following product(s) have been produced under the supervision of the Islamic Food and Nutrition Council of America (IFANCA). The production facility as well as component ingredients have been reviewed and approved. The product(s) are in compliance with the halal requirements under Islamic laws.

Date: July 23, 2024

Document #: 4739.15720.II240011

Company Name & Address: **Sigma-Aldrich Corporation** 6000 N. Teutonia Avenue Milwaukee, Wisconsin 53209 USA

Plant Name & Address: **Aldrich Chemical Company, LLC** 5485 County Road V Sheboygan Falls, Wisconsin 53085 USA

Product Name	Product Code	Halal-ID	Product Certificate #
738. ISOAMYL BUTYRATE NATURAL, 98% ISOAMYL BUTYRATE BASIS, FCC FG	W206016	A20554	HC-24SICU10
739. ISOAMYL CINNAMATE 97%, FG	W206318	A13377	HC-24SI7O58
740. Isoamyl Cinnamate Natural	W206326	C32916	HC-24SIKU30
741. ISOAMYL FORMATE MIXTURE OF ISOMERS	W206903	A83789	HC-24SIBG38
742. ISOAMYL HEXANOATE, MIXTURE OF ISOMERS FCC	W207500	B34106	HC-24SI9908
743. ISOAMYL ISOBUTYRATE 98%, FG	W350702	A88811	HC-24SI8267
744. ISOAMYL ISOBUTYRATE NATURAL, 98%, 70% ISOAMYL ISOBUTYRATE BASIS	W350710	B42915	HC-24SIO761
745. ISOAMYL ISOVALERATE 98%, FCC	W208507	B42920	HC-24SIUQ62
746. ISOAMYL ISOVALERATE NATURAL, 98%, FCC, FG	W208515	A35342	HC-24SIXO11
747. ISOAMYL OCTANOATE	W208000	C53461	HC-24SIWL96
748. ISOAMYL OCTANOATE NATURAL, 98%, FG	W208019	B75097	HC-24SIBA91

Muhammad Munir Chaudry

Muhammad Munir Chaudry, Ph.D.
President



This certificate is valid until **July 31, 2025** and subject to renewal at that time.





المجلس الإسلامي الأمريكي للغذاء و التغذية
THE ISLAMIC FOOD AND NUTRITION COUNCIL OF AMERICA
IFANCA HALAL PRODUCT CERTIFICATE شهادة حلال

This is to certify that the following product(s) have been produced under the supervision of the Islamic Food and Nutrition Council of America (IFANCA). The production facility as well as component ingredients have been reviewed and approved. The product(s) are in compliance with the halal requirements under Islamic laws.

Date: July 23, 2024

Document #: 4739.15720.II240011

Company Name & Address: **Sigma-Aldrich Corporation** 6000 N. Teutonia Avenue Milwaukee, Wisconsin 53209 USA

Plant Name & Address: **Aldrich Chemical Company, LLC** 5485 County Road V Sheboygan Falls, Wisconsin 53085 USA

Product Name	Product Code	Halal-ID	Product Certificate #
749. ISOAMYL PHENYLACETATE NATURAL, 98%, FG	W208100	A73305	HC-24SIBI62
750. ISOAMYL PROPIONATE	W208205	C42585	HC-24SIE730
751. Isoamyl Propionate Natural	W208213	C32918	HC-24SIDM30
752. ISOBORNEOL	W215805	C39735	HC-24SIAI37
753. ISOBORNYL ACETATE	W216003	C37173	HC-24SID847
754. ISOBUTYL ACETATE 98%, FCC, FG	W217506	B66735	HC-24SIAX31
755. ISOBUTYL ACETATE NATURAL, 97%, FCC, FG	W217514	B15184	HC-24SI2077
756. ISOBUTYL ALCOHOL 99%, FCC, FG	W217905	A70506	HC-24SIFM46
757. ISOBUTYL ALCOHOL, NATURAL	W217913	C36274	HC-24SIOT14
758. ISOBUTYL BUTYRATE 98%, FCC, FG	W218707	B25374	HC-24SIK752
759. ISOBUTYL BUTYRATE, NATURAL	W218715	C44261	HC-24SI9M94
760. ISOBUTYL CINNAMATE 98%, FCC, FG	W219304	B71323	HC-24SI9P69

Muhammad Munir Chaudry

Muhammad Munir Chaudry, Ph.D.
President



This certificate is valid until **July 31, 2025** and subject to renewal at that time.





المجلس الإسلامي الأمريكي للغذاء و التغذية
THE ISLAMIC FOOD AND NUTRITION COUNCIL OF AMERICA
IFANCA HALAL PRODUCT CERTIFICATE شهادة حلال

This is to certify that the following product(s) have been produced under the supervision of the Islamic Food and Nutrition Council of America (IFANCA). The production facility as well as component ingredients have been reviewed and approved. The product(s) are in compliance with the halal requirements under Islamic laws.

Date: July 23, 2024

Document #: 4739.15720.II240011

Company Name & Address: **Sigma-Aldrich Corporation** 6000 N. Teutonia Avenue Milwaukee, Wisconsin 53209 USA

Plant Name & Address: **Aldrich Chemical Company, LLC** 5485 County Road V Sheboygan Falls, Wisconsin 53085 USA

Product Name	Product Code	Halal-ID	Product Certificate #
761. ISOBUTYL FORMATE 95%, FG	W219703	A62065	HC-24SIB979
762. ISOBUTYL HEXANOATE	W220205	C42586	HC-24SIEG08
763. ISOBUTYL HEXANOATE, NATURAL, 95%	W220213	A68354	HC-24SIEU29
764. ISOBUTYL ISOVALERATE, NATURAL (US)	W336900	C44271	HC-24SIB736
765. ISOBUTYL PHENYLACETATE 98%, FCC, FG	W221007	B10150	HC-24SI6E44
766. ISOBUTYL PROPIONATE	W221201	C54813	HC-24SIHJ80
767. ISOBUTYL PROPIONATE, NATURAL	W221240	C20180	HC-24SI5203
768. ISOBUTYL SALICYLATE 98%, FCC	W221309	B73576	HC-24SID481
769. Isobutyraldehyde	W222003	C41908	HC-24SIA502
770. ISOBUTYRALDEHYDE NATURAL, 96%, FG	W222011	B48458	HC-24SIY303
771. ISOEUGENOL MIXTURE OF CIS AND TRANS, 99%, FG	W246808	B42336	HC-24SITR57
772. ISOEUGENOL, NATURAL, 99%, FG	W246830	A71374	HC-24SIA649

Muhammad Munir Chaudry

Muhammad Munir Chaudry, Ph.D.
President



This certificate is valid until **July 31, 2025** and subject to renewal at that time.





المجلس الإسلامي الأمريكي للغذاء و التغذية
THE ISLAMIC FOOD AND NUTRITION COUNCIL OF AMERICA
IFANCA HALAL PRODUCT CERTIFICATE شهادة حلال

This is to certify that the following product(s) have been produced under the supervision of the Islamic Food and Nutrition Council of America (IFANCA). The production facility as well as component ingredients have been reviewed and approved. The product(s) are in compliance with the halal requirements under Islamic laws.

Date: July 23, 2024

Document #: 4739.15720.II240011

Company Name & Address: **Sigma-Aldrich Corporation** 6000 N. Teutonia Avenue Milwaukee, Wisconsin 53209 USA

Plant Name & Address: **Aldrich Chemical Company, LLC** 5485 County Road V Sheboygan Falls, Wisconsin 53085 USA

Product Name	Product Code	Halal-ID	Product Certificate #
773. ISOEUGENYL ACETATE 98%, FCC, FG	W247006	B62049	HC-24SICE94
774. ISOPENTYLAMINE 98%	W321907	A73282	HC-24SIBY61
775. ISOPENTYLAMINE, =98%	W321900	A26199	HC-24SID938
776. ISOPROPYL ACETATE 99%, FCC	W292605	B44899	HC-24SIJZ78
777. Isopropyl Alcohol	W292912	B31239	HC-24SICS87
778. ISOPROPYL ALCOHOL 99.7%, FCC, FG	W292907	A72077	HC-24SIAS56
779. ISOPROPYL CINNAMATE 96%, FG	W293903	A78404	HC-24SIDL10
780. Isopropyl Isovalerate	W296101	A10636	HC-24SIC236
781. ISOPROPYL MYRISTATE 98%	W355690	A76329	HC-24SI7N84
782. ISOPROPYL PALMITATE	W515604	C47746	HC-24SIQF48
783. ISOPROPYL TIGLATE 98%	W322903	A91776	HC-24SI5U88
784. ISOVALERALDEHYDE	W269204	C29310	HC-24SIDT98

Muhammad Munir Chaudry

Muhammad Munir Chaudry, Ph.D.
President



This certificate is valid until **July 31, 2025** and subject to renewal at that time.





المجلس الإسلامي الأمريكي للغذاء و التغذية
THE ISLAMIC FOOD AND NUTRITION COUNCIL OF AMERICA
IFANCA HALAL PRODUCT CERTIFICATE شهادة حلال

This is to certify that the following product(s) have been produced under the supervision of the Islamic Food and Nutrition Council of America (IFANCA). The production facility as well as component ingredients have been reviewed and approved. The product(s) are in compliance with the halal requirements under Islamic laws.

Date: July 23, 2024

Document #: 4739.15720.II240011

Company Name & Address: **Sigma-Aldrich Corporation** 6000 N. Teutonia Avenue Milwaukee, Wisconsin 53209 USA

Plant Name & Address: **Aldrich Chemical Company, LLC** 5485 County Road V Sheboygan Falls, Wisconsin 53085 USA

Product Name	Product Code	Halal-ID	Product Certificate #
785. ISOVALERIC ACID 99%, FCC	W310204	A18898	HC-24SIBB97
786. ISOVALERIC ACID NATURAL, 98%, FG	W310212	A76605	HC-24SI7K87
787. JASMIN ABSOLUTE	W259802	A73962	HC-24SIZL68
788. JUNIPER BERRY OIL, CERTIFIED ORGANIC (NOP)	W260404	A91480	HC-24SI9484
789. L-(+)-TARTARIC ACID 99.7%, FCC, FG	W304409	B66785	HC-24SIBN33
790. L-(+)-TARTARIC ACID, NATURAL	W304412	C29443	HC-24SIQE88
791. LACTIC ACID 85%, FCC	W261106	A18205	HC-24SIAU93
792. LACTIC ACID NATURAL, 85%	W261114	A37592	HC-24SIY425
793. L-ALANINE, NATURAL	W381812	B88299	HC-24SIXX76
794. L-ARABINOSE, NATURAL	W325512	B88304	HC-24SIBZ93
795. L-ARGININE, NATURAL	W381920	B88300	HC-24SI8B22
796. L-ASPARTIC ACID	w365612	B88311	HC-24SINI28

Muhammad Munir Chaudry

Muhammad Munir Chaudry, Ph.D.
President



This certificate is valid until **July 31, 2025** and subject to renewal at that time.





المجلس الإسلامي الأمريكي للغذاء و التغذية

THE ISLAMIC FOOD AND NUTRITION COUNCIL OF AMERICA

IFANCA HALAL PRODUCT CERTIFICATE شهادة حلال

This is to certify that the following product(s) have been produced under the supervision of the Islamic Food and Nutrition Council of America (IFANCA). The production facility as well as component ingredients have been reviewed and approved. The product(s) are in compliance with the halal requirements under Islamic laws.

Date: July 23, 2024

Document #: 4739.15720.II240011

Company Name & Address: **Sigma-Aldrich Corporation** 6000 N. Teutonia Avenue Milwaukee, Wisconsin 53209 USA

Plant Name & Address: **Aldrich Chemical Company, LLC** 5485 County Road V Sheboygan Falls, Wisconsin 53085 USA

Product Name	Product Code	Halal-ID	Product Certificate #
797. LAURIC ACID 98%, FCC, FG	W261408	B13921	HC-24SI3C66
798. LAURIC ACID, NATURAL	W261416	C36285	HC-24SIGW27
799. LAURIC ALDEHYDE 95%, FCC, FG	W261505	B86829	HC-24SI3678
800. LAURIC ALDEHYDE NATURAL, 95%, FG	W261513	A29554	HC-24SI8Z69
801. LAURYL ACETATE	W261602	C47742	HC-24SICE09
802. LAURYL ALCOHOL 98%, FG	W261718	A65835	HC-24SI8711
803. LAVENDER OIL, 40/42% FLEURS	W262218	C54815	HC-24SIUX28
804. LAVENDER OIL, CERTIFIED ORGANIC (NOP)	W262235	A17426	HC-24SIF885
805. L-CARVEOL, MIXTURE OF CIS AND TRANS 95%, FG	W224707	B21303	HC-24SIO723
806. L-CARVONE 97%, FCC, FG	W224901	B76168	HC-24SIFJ98
807. L-CARVONE, NATURAL	W224908	C36276	HC-24SI7E61
808. L-CYSTEINE	W326305	C51540	HC-24SIEP39

Muhammad Munir Chaudry

Muhammad Munir Chaudry, Ph.D.
President



This certificate is valid until **July 31, 2025** and subject to renewal at that time.





المجلس الإسلامي الأمريكي للغذاء و التغذية
THE ISLAMIC FOOD AND NUTRITION COUNCIL OF AMERICA
IFANCA HALAL PRODUCT CERTIFICATE شهادة حلال

This is to certify that the following product(s) have been produced under the supervision of the Islamic Food and Nutrition Council of America (IFANCA). The production facility as well as component ingredients have been reviewed and approved. The product(s) are in compliance with the halal requirements under Islamic laws.

Date: July 23, 2024

Document #: 4739.15720.II240011

Company Name & Address: **Sigma-Aldrich Corporation** 6000 N. Teutonia Avenue Milwaukee, Wisconsin 53209 USA

Plant Name & Address: **Aldrich Chemical Company, LLC** 5485 County Road V Sheboygan Falls, Wisconsin 53085 USA

Product Name	Product Code	Halal-ID	Product Certificate #
809. L-CYSTEINE HYDROCHLORIDE	W778567	C49394	HC-24SI7Q14
810. L-DIHYDROCARVYL ACETATE MIXTURE OF ISOMERS, 95%	W238007	A16587	HC-24SIHX78
811. LEMON OIL COLD-PRESSED, CALIFORNIA ORIGIN, FG	W262528	A62165	HC-24SIAN80
812. LEMON OIL, CERTIFIED ORGANIC (NOP)	W262533	A12161	HC-24SI8H47
813. LEMONGRASS OIL, CERTIFIED ORGANIC (NOP)	W262440	B44426	HC-24SIPX75
814. LEVULINIC ACID 97%, FG	W262706	B80363	HC-24SIZA27
815. LEVULINIC ACID, NATURAL	W262701	C37182	HC-24SI8449
816. L-FENCHONE 98%	W507709	A48344	HC-24SIJV91
817. L-GLUTAMIC ACID, NATURAL	W328512	B88305	HC-24SIZV49
818. LIME OIL, CERTIFIED ORGANIC (NOP)	W530106	A62385	HC-24SIA184
819. LIME OIL, NATURAL, PURIFIED BY DISTILLATION	W263109	C37183	HC-24SIGC08
820. LINALOOL 97%, FCC, FG	W263508	A13840	HC-24SI7I62

Muhammad Munir Chaudry

Muhammad Munir Chaudry, Ph.D.
President



This certificate is valid until **July 31, 2025** and subject to renewal at that time.





المجلس الإسلامي الأمريكي للغذاء و التغذية
THE ISLAMIC FOOD AND NUTRITION COUNCIL OF AMERICA
IFANCA HALAL PRODUCT CERTIFICATE شهادة حلال

This is to certify that the following product(s) have been produced under the supervision of the Islamic Food and Nutrition Council of America (IFANCA). The production facility as well as component ingredients have been reviewed and approved. The product(s) are in compliance with the halal requirements under Islamic laws.

Date: July 23, 2024

Document #: 4739.15720.II240011

Company Name & Address: **Sigma-Aldrich Corporation** 6000 N. Teutonia Avenue Milwaukee, Wisconsin 53209 USA

Plant Name & Address: **Aldrich Chemical Company, LLC** 5485 County Road V Sheboygan Falls, Wisconsin 53085 USA

Product Name	Product Code	Halal-ID	Product Certificate #
821. Linalool Oxide, Natural	W374600	C41923	HC-24SIBV18
822. LINALYL ACETATE 97%, FCC, FG	W263605	C87823	HC-24SICF83
823. LINALYL ACETATE NATURAL, 80%	W263613	C87824	HC-24SIAF62
824. LINALYL BENZOATE 95%	W263818	B75571	HC-24SIBP95
825. LINALYL BUTYRATE 95%, FG	W263907	B60074	HC-24SI4980
826. LINALYL FORMATE FCC	W264202	B22338	HC-24SIKD29
827. LINALYL PROPIONATE 95%, FCC, FG	W264504	B79431	HC-24SI1S20
828. LINOLEIC ACID, 95%, FG	W338020	A77466	HC-24SI5695
829. LITSEA CUBEBA OIL	W517208	B86730	HC-24SI4Z75
830. LITSEA CUBEBA OIL, CERTIFIED ORGANIC (NOP)	W384606	A52863	HC-24SIGD17
831. L-LEUCINE, NATURAL	W329712	B88307	HC-24SIZO16
832. L-LINALOOL NATURAL	W263516	C35046	HC-24SIIM97

Muhammad Munir Chaudry

Muhammad Munir Chaudry, Ph.D.
President



This certificate is valid until **July 31, 2025** and subject to renewal at that time.





المجلس الإسلامي الأمريكي للغذاء و التغذية
THE ISLAMIC FOOD AND NUTRITION COUNCIL OF AMERICA
IFANCA HALAL PRODUCT CERTIFICATE شهادة حلال

This is to certify that the following product(s) have been produced under the supervision of the Islamic Food and Nutrition Council of America (IFANCA). The production facility as well as component ingredients have been reviewed and approved. The product(s) are in compliance with the halal requirements under Islamic laws.

Date: July 23, 2024

Document #: 4739.15720.II240011

Company Name & Address: **Sigma-Aldrich Corporation** 6000 N. Teutonia Avenue Milwaukee, Wisconsin 53209 USA

Plant Name & Address: **Aldrich Chemical Company, LLC** 5485 County Road V Sheboygan Falls, Wisconsin 53085 USA

Product Name	Product Code	Halal-ID	Product Certificate #
833. L-LYSINE HYDROCHLORIDE, NATURAL	W384712	B88301	HC-24SIDM07
834. L-LYSINE,=98%, FG	W384720	A87506	HC-24SI7A61
835. L-MENTHOL NATURAL	W266523	D12697	HC-24SIT270
836. L-MENTHONE MIXTURE OF ISOMERS, 96%, FCC, FG	W266701	B43017	HC-24SIRC63
837. L-MENTHYL ACETATE, NATURAL	W266825	C42590	HC-24SIAV90
838. L-MENTHYL LACTATE	W374800	C44274	HC-24SIQ234
839. L-PHENYLALANINE, NATURAL	W358512	B88309	HC-24SIZO66
840. L-PROLINE 99%, FCC, FG	W331902	B81660	HC-24SI2Y37
841. L-RHAMNOSE MONOHYDRATE, NATURAL	W373012	B88297	HC-24SICA93
842. L-RHAMNOSE, NATURAL	W373011	C20196	HC-24SIWA45
843. L-TURPENTINE	W308900	B44351	HC-24SIJE74
844. L-VALINE, NATURAL	W344412	B88308	HC-24SIZB51

Muhammad Munir Chaudry

Muhammad Munir Chaudry, Ph.D.
President



This certificate is valid until **July 31, 2025** and subject to renewal at that time.





المجلس الإسلامي الأمريكي للغذاء و التغذية
THE ISLAMIC FOOD AND NUTRITION COUNCIL OF AMERICA
IFANCA HALAL PRODUCT CERTIFICATE شهادة حلال

This is to certify that the following product(s) have been produced under the supervision of the Islamic Food and Nutrition Council of America (IFANCA). The production facility as well as component ingredients have been reviewed and approved. The product(s) are in compliance with the halal requirements under Islamic laws.

Date: July 23, 2024

Document #: 4739.15720.II240011

Company Name & Address: **Sigma-Aldrich Corporation** 6000 N. Teutonia Avenue Milwaukee, Wisconsin 53209 USA

Plant Name & Address: **Aldrich Chemical Company, LLC** 5485 County Road V Sheboygan Falls, Wisconsin 53085 USA

Product Name	Product Code	Halal-ID	Product Certificate #
845. MACADAMIA OIL, CERTIFIED ORGANIC (NOP)	W530179	A99764	HC-24SI7O42
846. MALIC ACID, NATURAL	W265512	B88303	HC-24SIB870
847. MALTOL 99.0%, FCC, FG	W265608	A93640	HC-24SI5X99
848. MALTOL NATURAL, 98.5%, FG	W265624	A92830	HC-24SI5D95
849. MALTYL ISOBUTYRATE 98%, FG	W346209	A96794	HC-24SI2624
850. MANDARIN GREEN OIL, CERTIFIED ORGANIC (NOP)	W265734	B82024	HC-24SID739
851. MANDARIN OIL ITALIAN, FCC	W265713	A46947	HC-24SIUW83
852. MANGO FURANONE NATURAL	W410100	D23343	HC-24SI4X08
853. MARJORAM OIL, SWEET, CERTIFIED ORGANIC (NOP)	W266309	A40020	HC-24SIUZ39
854. Massoia Lactone Natural	W374400	C29018	HC-24SIHO89
855. M-CRESOL 98%, FG	W353000	B61521	HC-24SICV92
856. MENTHALACTONE 99%	W376418	B17742	HC-24SISG91

Muhammad Munir Chaudry

Muhammad Munir Chaudry, Ph.D.
President



This certificate is valid until **July 31, 2025** and subject to renewal at that time.





المجلس الإسلامي الأمريكي للغذاء و التغذية

THE ISLAMIC FOOD AND NUTRITION COUNCIL OF AMERICA

IFANCA HALAL PRODUCT CERTIFICATE شهادة حلال

This is to certify that the following product(s) have been produced under the supervision of the Islamic Food and Nutrition Council of America (IFANCA). The production facility as well as component ingredients have been reviewed and approved. The product(s) are in compliance with the halal requirements under Islamic laws.

Date: July 23, 2024

Document #: 4739.15720.II240011

Company Name & Address: **Sigma-Aldrich Corporation** 6000 N. Teutonia Avenue Milwaukee, Wisconsin 53209 USA

Plant Name & Address: **Aldrich Chemical Company, LLC** 5485 County Road V Sheboygan Falls, Wisconsin 53085 USA

Product Name	Product Code	Halal-ID	Product Certificate #
857. MENTHYL ISOVALERATE 98%, FG	W266906	A49925	HC-24SIK102
858. MENTHYL VALERATE NATURAL (US)	W415655	D23344	HC-24SIQ446
859. METHIONAL 97%, FG	W274704	A56085	HC-24SIEN40
860. METHYL (METHYLTHIO)ACETATE, FG	W400301	A59396	HC-24SID457
861. METHYL 2-FUROATE	W270318	C37184	HC-24SI4J46
862. METHYL 2-FUROATE, NATURAL	W270327	C35051	HC-24SIO760
863. METHYL 2-METHYL-3-FURYL DISULFIDE 98%, FG	W357308	A77859	HC-24SIHH02
864. METHYL 2-METHYLBUTYRATE NATURAL, 98%, FCC, FG	W271926	B32709	HC-24SI2J97
865. METHYL 2-NONYNOATE 99%, FG	W272604	B50348	HC-24SIP318
866. METHYL 2-OCTYNOATE 99%, FCC, FG	W272906	A47229	HC-24SIUW86
867. METHYL 2-PYRROLYL KETONE 98%, FG	W320218	B69417	HC-24SIG450
868. METHYL 2-THIOFUROATE 98%, FG	W331104	B81540	HC-24SIAP36

Muhammad Munir Chaudry

Muhammad Munir Chaudry, Ph.D.
President



This certificate is valid until **July 31, 2025** and subject to renewal at that time.





المجلس الإسلامي الأمريكي للغذاء و التغذية
THE ISLAMIC FOOD AND NUTRITION COUNCIL OF AMERICA
IFANCA HALAL PRODUCT CERTIFICATE شهادة حلال

This is to certify that the following product(s) have been produced under the supervision of the Islamic Food and Nutrition Council of America (IFANCA). The production facility as well as component ingredients have been reviewed and approved. The product(s) are in compliance with the halal requirements under Islamic laws.

Date: July 23, 2024

Document #: 4739.15720.II240011

Company Name & Address: **Sigma-Aldrich Corporation** 6000 N. Teutonia Avenue Milwaukee, Wisconsin 53209 USA

Plant Name & Address: **Aldrich Chemical Company, LLC** 5485 County Road V Sheboygan Falls, Wisconsin 53085 USA

Product Name	Product Code	Halal-ID	Product Certificate #
869. METHYL 3-(METHYLTHIO)PROPIONATE 98%, FG	W272000	A97501	HC-24SI2J30
870. METHYL 3-HYDROXYHEXANOATE 97%, FG	W350818	B74585	HC-24SIAF88
871. METHYL 3-HYDROXYBUTYRATE	W445000	C29020	HC-24SIBN44
872. METHYL 3-NONENOATE 96%, FG	W371009	B14778	HC-24SIZ972
873. METHYL ACETATE 98%, FG	W267600	B51989	HC-24SIMP33
874. METHYL ACETATE NATURAL (US), 98%, FG	W267619	B23248	HC-24SILR34
875. METHYL ANTHRANILATE 98%, FCC, FG	W268208	A50458	HC-24SIG905
876. METHYL ANTHRANILATE, 99%, NATURAL	W268216	A12972	HC-24SI7355
877. METHYL ANTHRANILATE, NATURAL, 99%, FG	W268224	A96208	HC-24SI7L17
878. METHYL BENZOATE, NATURAL	W268313	C35044	HC-24SIFZ23
879. METHYL BUTYRATE 98%, FG	W269301	A27935	HC-24SICN53
880. METHYL BUTYRATE NATURAL, 98%, FG	W269328	A30555	HC-24SI9378

Muhammad Munir Chaudry

Muhammad Munir Chaudry, Ph.D.
President



This certificate is valid until **July 31, 2025** and subject to renewal at that time.





المجلس الإسلامي الأمريكي للغذاء و التغذية
THE ISLAMIC FOOD AND NUTRITION COUNCIL OF AMERICA
IFANCA HALAL PRODUCT CERTIFICATE شهادة حلال

This is to certify that the following product(s) have been produced under the supervision of the Islamic Food and Nutrition Council of America (IFANCA). The production facility as well as component ingredients have been reviewed and approved. The product(s) are in compliance with the halal requirements under Islamic laws.

Date: July 23, 2024

Document #: 4739.15720.II240011

Company Name & Address: **Sigma-Aldrich Corporation** 6000 N. Teutonia Avenue Milwaukee, Wisconsin 53209 USA

Plant Name & Address: **Aldrich Chemical Company, LLC** 5485 County Road V Sheboygan Falls, Wisconsin 53085 USA

Product Name	Product Code	Halal-ID	Product Certificate #
881. METHYL CINNAMATE NATURAL, 98%, FCC, FG	W269816	A97610	HC-24SI2X31
882. METHYL CYCLOHEXADIENE MIXTURE OF ISOMERS, STABILIZED	W431105	D23345	HC-24SI2Z61
883. METHYL CYCLOPENTENOLONE ANHYDROUS, 98%, FCC, FG	W270008	A46677	HC-24SIXU79
884. Methyl Cyclopentenolone Anhydrous, Natural	W270015	C41913	HC-24SISL58
885. METHYL CYCLOPENTENOLONE HYDRATE, NATURAL	W270036	C35050	HC-24SI2D37
886. METHYL DECANOATE	W505501	C45654	HC-24SIDG34
887. METHYL DIHYDROJASMONATE, MIXTURE OF CIS AND TRANS 96%, FG	W340804	A54285	HC-24SIFO22
888. METHYL EUGENOL	W247502	C36283	HC-24SIIZ37
889. METHYL FURFURYL DISULFIDE 95%, FG	W336203	A48090	HC-24SIJE89
890. METHYL FURFURYL MERCAPTOPROPIONATE	W453801	D23348	HC-24SIUX05
891. METHYL HEXANOATE 99%, FG	W270806	B42402	HC-24SIT358

Muhammad Munir Chaudry

Muhammad Munir Chaudry, Ph.D.
President



This certificate is valid until **July 31, 2025** and subject to renewal at that time.





المجلس الإسلامي الأمريكي للغذاء و التغذية
THE ISLAMIC FOOD AND NUTRITION COUNCIL OF AMERICA
IFANCA HALAL PRODUCT CERTIFICATE شهادة حلال

This is to certify that the following product(s) have been produced under the supervision of the Islamic Food and Nutrition Council of America (IFANCA). The production facility as well as component ingredients have been reviewed and approved. The product(s) are in compliance with the halal requirements under Islamic laws.

Date: July 23, 2024

Document #: 4739.15720.II240011

Company Name & Address: **Sigma-Aldrich Corporation** 6000 N. Teutonia Avenue Milwaukee, Wisconsin 53209 USA

Plant Name & Address: **Aldrich Chemical Company, LLC** 5485 County Road V Sheboygan Falls, Wisconsin 53085 USA

Product Name	Product Code	Halal-ID	Product Certificate #
892. METHYL HEXANOATE NATURAL, 99%, FG	W270814	A96367	HC-24SI2P21
893. METHYL ISOBUTYRATE, NATURAL	W269440	C42591	HC-24SI8Y53
894. METHYL ISOEUGENOL 98%, FG	W247618	A43965	HC-24SIY664
895. METHYL ISOVALERATE	W275301	C49388	HC-24SIOF04
896. METHYL JASMONATE 95%	W341002	A37686	HC-24SIYB26
897. METHYL LAURATE	W271500	C44266	HC-24SIFM84
898. METHYL LAURATE, NATURAL	W271511	C35052	HC-24SIHI09
899. METHYL OCTANOATE	W272809	C42592	HC-24SI6K18
900. METHYL P-ANISATE	W267902	C49387	HC-24SIUT59
901. METHYL PHENYLACETATE 98%, FCC, FG	W273309	B33282	HC-24SI8O01
902. METHYL PROPIONATE	W274208	C51537	HC-24SIA668
903. METHYL PROPYL DISULFIDE 95%, FG	W320102	B41988	HC-24SITU53

Muhammad Munir Chaudry

Muhammad Munir Chaudry, Ph.D.
President



This certificate is valid until **July 31, 2025** and subject to renewal at that time.



Page 78 of 99



المجلس الإسلامي الأمريكي للغذاء و التغذية

THE ISLAMIC FOOD AND NUTRITION COUNCIL OF AMERICA

IFANCA HALAL PRODUCT CERTIFICATE شهادة حلال

This is to certify that the following product(s) have been produced under the supervision of the Islamic Food and Nutrition Council of America (IFANCA). The production facility as well as component ingredients have been reviewed and approved. The product(s) are in compliance with the halal requirements under Islamic laws.

Date: July 23, 2024

Document #: 4739.15720.II240011

Company Name & Address: **Sigma-Aldrich Corporation** 6000 N. Teutonia Avenue Milwaukee, Wisconsin 53209 USA

Plant Name & Address: **Aldrich Chemical Company, LLC** 5485 County Road V Sheboygan Falls, Wisconsin 53085 USA

Product Name	Product Code	Halal-ID	Product Certificate #
904. METHYL P-TERT-BUTYLPHENYLACETATE 95%, FG	W269018	A73995	HC-24SIZ969
905. METHYL SALICYLATE 98%, FCC, FG	W274518	B76694	HC-24SI5905
906. METHYL SALICYLATE, NATURAL, 98%, FCC, FG	W274502	A64498	HC-24SIAD97
907. METHYL STEARATE	W504807	C47744	HC-24SIEM91
908. METHYL SULFOXIDE, 99%, FG	W387520	A62198	HC-24SIA681
909. METHYL THIOBUTYRATE 97%, FG	W331007	B28503	HC-24SIYR73
910. METHYL THIOBUTYRATE, NATURAL, =98%, FG	W331015	A65439	HC-24SI8N09
911. METHYL TRANS-2-NONENOATE 97%, FG	W272507	A32711	HC-24SI6894
912. METHYL TRANS-2-OCTENOATE 96%	W371203	A17449	HC-24SIFT87
913. METHYL TRANS-3-HEXENOATE	W336408	C35045	HC-24SIJQ90
914. METHYL TRANS-CINNAMATE 98%, FCC, FG	W269808	A36718	HC-24SIYI18
915. Methyl Valerate	W275204	C41915	HC-24SIEA67

Muhammad Munir Chaudry

Muhammad Munir Chaudry, Ph.D.
President



This certificate is valid until **July 31, 2025** and subject to renewal at that time.





المجلس الإسلامي الأمريكي للغذاء و التغذية
THE ISLAMIC FOOD AND NUTRITION COUNCIL OF AMERICA
IFANCA HALAL PRODUCT CERTIFICATE شهادة حلال

This is to certify that the following product(s) have been produced under the supervision of the Islamic Food and Nutrition Council of America (IFANCA). The production facility as well as component ingredients have been reviewed and approved. The product(s) are in compliance with the halal requirements under Islamic laws.

Date: July 23, 2024

Document #: 4739.15720.II240011

Company Name & Address: **Sigma-Aldrich Corporation** 6000 N. Teutonia Avenue Milwaukee, Wisconsin 53209 USA

Plant Name & Address: **Aldrich Chemical Company, LLC** 5485 County Road V Sheboygan Falls, Wisconsin 53085 USA

Product Name	Product Code	Halal-ID	Product Certificate #
916. METHYL VANILLATE 98%, FG	W510319	A98908	HC-24SI7N36
917. MUSK KETONE	W522902	C49393	HC-24SIYC47
918. MYRCENE 90%, FCC, FG	W276200	A52411	HC-24SIGP14
919. MYRISTIC ACID 95%, FCC, FG	W276405	A16221	HC-24SICZ75
920. MYRISTIC ACID NATURAL	W276413	B56499	HC-24SIKP61
921. N-Amyl Octanoate	W207918	C32917	HC-24SI2E20
922. NEOHESPERIDIN DIHYDROCHALCONE 96%	W381101	B39393	HC-24SIQZ41
923. NEROLI OIL, MOROCCO FG	W277126	B12282	HC-24SI3E55
924. NERYL ACETATE 98%, FCC, FG	W277304	A82414	HC-24SIFS30
925. NERYL ACETATE, NATURAL	W277315	C44267	HC-24SIGK20
926. Neryl Isobutyrate	W277509	C41916	HC-24SIES24

Muhammad Munir Chaudry

Muhammad Munir Chaudry, Ph.D.
President



This certificate is valid until **July 31, 2025** and subject to renewal at that time.



Page 80 of 99



المجلس الإسلامي الأمريكي للغذاء و التغذية
THE ISLAMIC FOOD AND NUTRITION COUNCIL OF AMERICA
IFANCA HALAL PRODUCT CERTIFICATE شهادة حلال

This is to certify that the following product(s) have been produced under the supervision of the Islamic Food and Nutrition Council of America (IFANCA). The production facility as well as component ingredients have been reviewed and approved. The product(s) are in compliance with the halal requirements under Islamic laws.

Date: July 23, 2024

Document #: 4739.15720.II240011

Company Name & Address: **Sigma-Aldrich Corporation** 6000 N. Teutonia Avenue Milwaukee, Wisconsin 53209 USA

Plant Name & Address: **Aldrich Chemical Company, LLC** 5485 County Road V Sheboygan Falls, Wisconsin 53085 USA

Product Name	Product Code	Halal-ID	Product Certificate #
927. N-ETHYL-2-ISOPROPYL-5-METHYLCYCLOHEXANECARBOXAMIDE 99%, FG	W345501	A65273	HC-24SI8G07
928. NONANAL 95%, FCC	W278203	A13202	HC-24SI7Q57
929. Nonanal Natural	W278220	C29016	HC-24SIEB90
930. NONANOIC ACID 96%, FG	W278408	B15203	HC-24SI1G78
931. NONANOIC ACID, NATURAL	W278430	C10276	HC-24SIQT23
932. NONYL ALCOHOL 98%, FCC	W278904	A60803	HC-24SIBD67
933. NOOTKATONE	W316620	B92009	HC-24SI6N88
934. NOOTKATONE	W326620	B95988	HC-24SI3T52
935. N-PROPYL ISOVALERATE, NATURAL (US)	W296000	C54817	HC-24SIPS32
936. O-ANISALDEHYDE	W407701	C39753	HC-24SIA264
937. O-CRESOL	W348007	C51541	HC-24SIVQ34

Muhammad Munir Chaudry

Muhammad Munir Chaudry, Ph.D.
President



This certificate is valid until **July 31, 2025** and subject to renewal at that time.





المجلس الإسلامي الأمريكي للغذاء و التغذية

THE ISLAMIC FOOD AND NUTRITION COUNCIL OF AMERICA

IFANCA HALAL PRODUCT CERTIFICATE شهادة حلال

This is to certify that the following product(s) have been produced under the supervision of the Islamic Food and Nutrition Council of America (IFANCA). The production facility as well as component ingredients have been reviewed and approved. The product(s) are in compliance with the halal requirements under Islamic laws.

Date: July 23, 2024

Document #: 4739.15720.II240011

Company Name & Address: **Sigma-Aldrich Corporation** 6000 N. Teutonia Avenue Milwaukee, Wisconsin 53209 USA

Plant Name & Address: **Aldrich Chemical Company, LLC** 5485 County Road V Sheboygan Falls, Wisconsin 53085 USA

Product Name	Product Code	Halal-ID	Product Certificate #
938. OCTANAL 95%, FCC, FG	W279706	A78484	HC-24SIDX11
939. OCTANAL, NATURAL	W279714	C36286	HC-24SIDD88
940. OCTANOIC ACID 98%, FG	W279900	B46182	HC-24SI7A87
941. OCTYL 2-METHYLBUTYRATE	W360406	B92010	HC-24SIBR39
942. OCTYL ACETATE 98%, FCC, FG	W280607	B13205	HC-24SI2762
943. OCTYL BUTYRATE 98%, FG	W280704	B76535	HC-24SI3S02
944. OCTYL FORMATE	W280909	B92005	HC-24SIZI20
945. OLEIC ACID NATURAL, FCC	W281506	B18681	HC-24SI0U98
946. OLIVE OIL, EXTRA VIRGIN, CERTIFIED ORGANIC (NOP)	W530191	A96823	HC-24SI2F25
947. OMEGA-PENTADECALACTONE 98%, FG	W284009	B52867	HC-24SINV37
948. O-METHOXYCINNAMALDEHYDE 96%, FG	W318108	B21566	HC-24SIKQ25
949. OPOPONAX OIL NATURAL	W522600	B64342	HC-24SI9B16

Muhammad Munir Chaudry

Muhammad Munir Chaudry, Ph.D.
President



This certificate is valid until **July 31, 2025** and subject to renewal at that time.





المجلس الإسلامي الأمريكي للغذاء و التغذية

THE ISLAMIC FOOD AND NUTRITION COUNCIL OF AMERICA

IFANCA HALAL PRODUCT CERTIFICATE شهادة حلال

This is to certify that the following product(s) have been produced under the supervision of the Islamic Food and Nutrition Council of America (IFANCA). The production facility as well as component ingredients have been reviewed and approved. The product(s) are in compliance with the halal requirements under Islamic laws.

Date: July 23, 2024

Document #: 4739.15720.II240011

Company Name & Address: **Sigma-Aldrich Corporation** 6000 N. Teutonia Avenue Milwaukee, Wisconsin 53209 USA

Plant Name & Address: **Aldrich Chemical Company, LLC** 5485 County Road V Sheboygan Falls, Wisconsin 53085 USA

Product Name	Product Code	Halal-ID	Product Certificate #
950. ORANGE OIL NATURAL, COLD-COMPRESSED, CALIFORNIA ORIGIN	W282510	A57649	HC-24SIDW46
951. ORANGE OIL, SWEET, CERTIFIED ORGANIC (NOP)	W282401	B75132	HC-24SIBL92
952. ORANGE TERPENES	W522708	C29831	HC-24SI6G05
953. ORIGANUM OIL FCC	W282812	A27427	HC-24SIBJ48
954. ORRIS CONCRETE	W282928	A29917	HC-24SI8N72
955. O-TOLUENETHIOL 97%, FG	W324000	B78093	HC-24SI1C16
956. P,ALPHA,ALPHA-TRIMETHYLBENZYL ALCOHOL 95%, FG	W324205	A82307	HC-24SIFG28
957. P,ALPHA-DIMETHYLSTYRENE 98%	W314404	A68054	HC-24SIDS25
958. PALM FRUIT OIL, CERTIFIED ORGANIC (NOP)	W530216	A30259	HC-24SI9274
959. PALMITIC ACID 95%, FCC, FG	W283207	A20954	HC-24SIBX12
960. PALMITIC ACID, NATURAL	W283215	C20190	HC-24SIFY85

Muhammad Munir Chaudry

Muhammad Munir Chaudry, Ph.D.
President



This certificate is valid until **July 31, 2025** and subject to renewal at that time.





المجلس الإسلامي الأمريكي للغذاء و التغذية
THE ISLAMIC FOOD AND NUTRITION COUNCIL OF AMERICA
IFANCA HALAL PRODUCT CERTIFICATE شهادة حلال

This is to certify that the following product(s) have been produced under the supervision of the Islamic Food and Nutrition Council of America (IFANCA). The production facility as well as component ingredients have been reviewed and approved. The product(s) are in compliance with the halal requirements under Islamic laws.

Date: July 23, 2024

Document #: 4739.15720.II240011

Company Name & Address: **Sigma-Aldrich Corporation** 6000 N. Teutonia Avenue Milwaukee, Wisconsin 53209 USA

Plant Name & Address: **Aldrich Chemical Company, LLC** 5485 County Road V Sheboygan Falls, Wisconsin 53085 USA

Product Name	Product Code	Halal-ID	Product Certificate #
961. P-ANISALDEHYDE 97.5%, FCC	W267007	A53714	HC-24SIGL20
962. P-ANISALDEHYDE, NATURAL	W267020	C20188	HC-24SI7E38
963. P-ANISIC ACID, NATURAL	W394512	C36292	HC-24SI004
964. PATCHOULI OIL, CERTIFIED ORGANIC (NOP)	W283823	B87080	HC-24SI6A82
965. p-Cresol	W233706	B88302	HC-24SIM347
966. P-CYMENE 97%, FG	W235601	C87820	HC-24SITL44
967. PEPPERMINT OIL NATURAL, FCC, FG	W284815	B31800	HC-24SI2U89
968. PEPPERMINT OIL PURIFIED BY RECTIFICATION, FCC, FG	W284807	B44455	HC-24SIJJ76
969. PEPPERMINT OIL, CERTIFIED ORGANIC (NOP)	W284843	B18577	HC-24SISS96
970. PETITGRAIN OIL, PARAGUAY, CERTIFIED ORGANIC (NOP)	W530183	A74869	HC-24SIZG74
971. PHENETHYL 2-METHYLBUTYRATE 95%, FCC, FG	W363200	A35700	HC-24SIXN14
972. PHENETHYL ACETATE 98%, FCC, FG	W285706	B49519	HC-24SI5J13

Muhammad Munir Chaudry

Muhammad Munir Chaudry, Ph.D.
President



This certificate is valid until **July 31, 2025** and subject to renewal at that time.





المجلس الإسلامي الأمريكي للغذاء و التغذية
THE ISLAMIC FOOD AND NUTRITION COUNCIL OF AMERICA
IFANCA HALAL PRODUCT CERTIFICATE شهادة حلال

This is to certify that the following product(s) have been produced under the supervision of the Islamic Food and Nutrition Council of America (IFANCA). The production facility as well as component ingredients have been reviewed and approved. The product(s) are in compliance with the halal requirements under Islamic laws.

Date: July 23, 2024

Document #: 4739.15720.II240011

Company Name & Address: **Sigma-Aldrich Corporation** 6000 N. Teutonia Avenue Milwaukee, Wisconsin 53209 USA

Plant Name & Address: **Aldrich Chemical Company, LLC** 5485 County Road V Sheboygan Falls, Wisconsin 53085 USA

Product Name	Product Code	Halal-ID	Product Certificate #
973. PHENETHYL ACETATE NATURAL, 98%, FCC	W285714	A74845	HC-24SIZE73
974. PHENETHYL ALCOHOL 99%, FCC, FG	W285803	B82353	HC-24SI9P40
975. PHENETHYL ALCOHOL NATURAL, 99%, FCC, FG	W285811	B21142	HC-24SINP22
976. PHENETHYL HEXANOATE 97%, FG	W322105	A65541	HC-24SI8P10
977. PHENETHYL HEXANOATE NATURAL (US)	W322120	D12703	HC-24SI2U49
978. PHENETHYL ISOVALERATE 98%, FCC, FG	W287105	B82692	HC-24SI9244
979. PHENETHYL OCTANOATE 99%	W322202	B66757	HC-24SIB932
980. PHENETHYL PHENYLACETATE 98%, FCC, FG	W286605	A28093	HC-24SI9F56
981. PHENETHYL PROPIONATE 98%, FG	W286702	B76292	HC-24SI3V01
982. Phenethyl Tiglate	W287008	C41918	HC-24SIBB60
983. PHENOL 99%	W322318	A45866	HC-24SIWE73
984. PHENOL, NATURAL	W322340	C20192	HC-24SIAG03

Muhammad Munir Chaudry

Muhammad Munir Chaudry, Ph.D.
President



This certificate is valid until **July 31, 2025** and subject to renewal at that time.





المجلس الإسلامي الأمريكي للغذاء و التغذية
THE ISLAMIC FOOD AND NUTRITION COUNCIL OF AMERICA
IFANCA HALAL PRODUCT CERTIFICATE شهادة حلال

This is to certify that the following product(s) have been produced under the supervision of the Islamic Food and Nutrition Council of America (IFANCA). The production facility as well as component ingredients have been reviewed and approved. The product(s) are in compliance with the halal requirements under Islamic laws.

Date: July 23, 2024

Document #: 4739.15720.II240011

Company Name & Address: **Sigma-Aldrich Corporation** 6000 N. Teutonia Avenue Milwaukee, Wisconsin 53209 USA

Plant Name & Address: **Aldrich Chemical Company, LLC** 5485 County Road V Sheboygan Falls, Wisconsin 53085 USA

Product Name	Product Code	Halal-ID	Product Certificate #
985. PHENYL DISULFIDE, 98%	W322504	A60625	HC-24SIEQ65
986. PHENYLACETALDEHYDE 95%, FCC, FG	W287407	A67842	HC-24SIGP23
987. PHENYLACETALDEHYDE DIMETHYL ACETAL 98%, FCC	W287601	A60025	HC-24SIDT59
988. PHENYLACETIC ACID 99%, FCC, FG	W287806	A73354	HC-24SIBW63
989. PHENYLACETIC ACID, NATURAL	W287800	C20191	HC-24SIRC23
990. PHENYLETHYL MERCAPTAN	W389404	C14547	HC-24SIFV97
991. PHOSPHORIC ACID SOLUTION 85 WT. % IN H2O	W290017	A42153	HC-24SI1457
992. PIMENTA LEAF OIL, NATURAL	W290106	C54816	HC-24SI7K84
993. PIPERIDINE 99%, FCC	W290807	A90942	HC-24SIAV80
994. PIPERIDINE, =99%, FG	W290820	B48191	HC-24SITR01
995. PIPERINE 97%, FG	W290904	A89045	HC-24SI8B68
996. PIPERONAL 99%, FCC, FG	W291102	B33292	HC-24SISE02

Muhammad Munir Chaudry

Muhammad Munir Chaudry, Ph.D.
President



This certificate is valid until **July 31, 2025** and subject to renewal at that time.





المجلس الإسلامي الأمريكي للغذاء و التغذية
THE ISLAMIC FOOD AND NUTRITION COUNCIL OF AMERICA
IFANCA HALAL PRODUCT CERTIFICATE شهادة حلال

This is to certify that the following product(s) have been produced under the supervision of the Islamic Food and Nutrition Council of America (IFANCA). The production facility as well as component ingredients have been reviewed and approved. The product(s) are in compliance with the halal requirements under Islamic laws.

Date: July 23, 2024

Document #: 4739.15720.II240011

Company Name & Address: **Sigma-Aldrich Corporation** 6000 N. Teutonia Avenue Milwaukee, Wisconsin 53209 USA

Plant Name & Address: **Aldrich Chemical Company, LLC** 5485 County Road V Sheboygan Falls, Wisconsin 53085 USA

Product Name	Product Code	Halal-ID	Product Certificate #
997. PIPERONAL, NATURAL	W291113	C41919	HC-24SIVX35
998. PIPERONYL ISOBUTYRATE 98%, FG	W291307	B38924	HC-24SILF37
999. P-MENTHA-8-THIOL-3-ONE MIXTURE OF CIS AND TRANS, 95%, FG	W317705	B69971	HC-24SIS455
1000. P-MENTHA-8-THIOL-3-ONE MIXTURE OF CIS AND TRANS, NATURAL, 95%, FG	W317713	B82648	HC-24SI9Q43
1001. POLYSORBATE 80 FG	W291706	A26587	HC-24SIBZ41
1002. POTASSIUM ACETATE	W292001	C44269	HC-24SIGC30
1003. P-PROPYL ANISOLE 99%, FCC, FG	W293008	A67008	HC-24SI6416
1004. PRENYL ACETATE 98%	W420201	B68448	HC-24SI7O42
1005. PROPANAL, 98%, NATURAL, FG	W292312	A14824	HC-24SIB267
1006. PROPANIONALDEHYDE, =97%, FG	W292303	B48910	HC-24SIU907
1007. PROPENYL GUAETHOL 99%, FCC	W292206	B84351	HC-24SI9R58

Muhammad Munir Chaudry

Muhammad Munir Chaudry, Ph.D.
President



This certificate is valid until **July 31, 2025** and subject to renewal at that time.





المجلس الإسلامي الأمريكي للغذاء و التغذية
THE ISLAMIC FOOD AND NUTRITION COUNCIL OF AMERICA
IFANCA HALAL PRODUCT CERTIFICATE شهادة حلال

This is to certify that the following product(s) have been produced under the supervision of the Islamic Food and Nutrition Council of America (IFANCA). The production facility as well as component ingredients have been reviewed and approved. The product(s) are in compliance with the halal requirements under Islamic laws.

Date: July 23, 2024

Document #: 4739.15720.II240011

Company Name & Address: **Sigma-Aldrich Corporation** 6000 N. Teutonia Avenue Milwaukee, Wisconsin 53209 USA

Plant Name & Address: **Aldrich Chemical Company, LLC** 5485 County Road V Sheboygan Falls, Wisconsin 53085 USA

Product Name	Product Code	Halal-ID	Product Certificate #
1008. PROPIONIC ACID 99.5%, FCC, FG	W292400	A17335	HC-24SIDK83
1009. PROPIONIC ACID NATURAL, 99%, FG	W292419	B73159	HC-24SIA776
1010. PROPYL ACETATE 98%, FG	W292508	B17630	HC-24SIQ689
1011. PROPYL ACETATE NATURAL, 97%, FCC, FG	W292516	A80349	HC-24SIDM18
1012. PROPYL BUTYRATE 98%	W293407	B74777	HC-24SIAH89
1013. PROPYL BUTYRATE NATURAL, 95%	W293415	A60234	HC-24SID160
1014. PROPYL DISULFIDE 97%, FG	W322806	B32331	HC-24SI1892
1015. PROPYL FORMATE 97%	W294306	A41360	HC-24SIZ548
1016. PROPYL GALLATE 98%, FCC	W294705	A36757	HC-24SIZD19
1017. PROPYL HEXANOATE NATURAL, 95%, FG	W294926	B13978	HC-24SI1W67
1018. PROPYL LEVULINATE	W448001	C29021	HC-24SI4203
1019. PROPYL MERCAPTAN 98%	W352101	A89164	HC-24SI8P70

Muhammad Munir Chaudry

Muhammad Munir Chaudry, Ph.D.
President



This certificate is valid until **July 31, 2025** and subject to renewal at that time.





المجلس الإسلامي الأمريكي للغذاء و التغذية
THE ISLAMIC FOOD AND NUTRITION COUNCIL OF AMERICA
IFANCA HALAL PRODUCT CERTIFICATE شهادة حلال

This is to certify that the following product(s) have been produced under the supervision of the Islamic Food and Nutrition Council of America (IFANCA). The production facility as well as component ingredients have been reviewed and approved. The product(s) are in compliance with the halal requirements under Islamic laws.

Date: July 23, 2024

Document #: 4739.15720.II240011

Company Name & Address: **Sigma-Aldrich Corporation** 6000 N. Teutonia Avenue Milwaukee, Wisconsin 53209 USA

Plant Name & Address: **Aldrich Chemical Company, LLC** 5485 County Road V Sheboygan Falls, Wisconsin 53085 USA

Product Name	Product Code	Halal-ID	Product Certificate #
1020. PROPYL PROPIONATE	W295809	C37186	HC-24SI7S64
1021. PROPYL PROPIONATE NATURAL (US), 98%, FCC, FG	W295817	A78357	HC-24SICH09
1022. PROPYLENE GLYCOL 99.5%, FCC, FG	W294004	A44558	HC-24SIYL65
1023. P-TOLUALDEHYDE 97%, FG	W306800	B13587	HC-24SI3565
1024. PYRAZINEETHANETHIOL 97%, FG	W323004	B60454	HC-24SICM83
1025. PYRIDINE 99%	W296600	B23721	HC-24SIIX40
1026. PYRROLIDINE	W352316	C35040	HC-24SIGN31
1027. PYRIVALDEHYDE SOLUTION 40 WT. % IN H2O	W296902	B65459	HC-24SIAE25
1028. PYRUVIC ACID NATURAL, 80%	W297070	A69115	HC-24SI2136
1029. QUININE MONOHYDROCHLORIDE DIHYDRATE 90%	W297607	B73411	HC-24SIDN78
1030. QUINOLINE	W347000	C36289	HC-24SIBV73
1031. RAPESEED OIL, NATURAL	W834500	C29846	HC-24SIDH62

Muhammad Munir Chaudry

Muhammad Munir Chaudry, Ph.D.
President



This certificate is valid until **July 31, 2025** and subject to renewal at that time.





المجلس الإسلامي الأمريكي للغذاء و التغذية

THE ISLAMIC FOOD AND NUTRITION COUNCIL OF AMERICA

IFANCA HALAL PRODUCT CERTIFICATE شهادة حلال

This is to certify that the following product(s) have been produced under the supervision of the Islamic Food and Nutrition Council of America (IFANCA). The production facility as well as component ingredients have been reviewed and approved. The product(s) are in compliance with the halal requirements under Islamic laws.

Date: July 23, 2024

Document #: 4739.15720.II240011

Company Name & Address: **Sigma-Aldrich Corporation** 6000 N. Teutonia Avenue Milwaukee, Wisconsin 53209 USA

Plant Name & Address: **Aldrich Chemical Company, LLC** 5485 County Road V Sheboygan Falls, Wisconsin 53085 USA

Product Name	Product Code	Halal-ID	Product Certificate #
1032. RESORCINOL =98%	W358908	C14952	HC-24SIAT82
1033. RHODINOL MIXTURE OF L-CITRONELLOL AND GERANIOL, FCC	W298018	B27677	HC-24SIHT68
1034. ROSEMARY OIL FCC	W299200	B47184	HC-24SITW97
1035. ROSEMARY OIL, CERTIFIED ORGANIC (NOP)	W299225	B46336	HC-24SIV990
1036. SABINENE, NATURAL, 75%	W530597	A70062	HC-24SIFG43
1037. SAFRANAL 88%	W338907	B67095	HC-24SIBT34
1038. SAGE OIL, CERTIFIED ORGANIC (NOP)	W300100	A62859	HC-24SIAW87
1039. SALICYLALDEHYDE 98%, FG	W300403	B24238	HC-24SIJT44
1040. SALICYLIC ACID 99%, FG	W398500	A30819	HC-24SI7U81
1041. SANDALWOOD OIL NATURAL	W300500	B59452	HC-24SIMM76
1042. SASSAFRAS OIL	W510483	B58125	HC-24SIL870

Muhammad Munir Chaudry

Muhammad Munir Chaudry, Ph.D.
President



This certificate is valid until **July 31, 2025** and subject to renewal at that time.



Page 90 of 99



المجلس الإسلامي الأمريكي للغذاء و التغذية

THE ISLAMIC FOOD AND NUTRITION COUNCIL OF AMERICA

IFANCA HALAL PRODUCT CERTIFICATE شهادة حلال

This is to certify that the following product(s) have been produced under the supervision of the Islamic Food and Nutrition Council of America (IFANCA). The production facility as well as component ingredients have been reviewed and approved. The product(s) are in compliance with the halal requirements under Islamic laws.

Date: July 23, 2024

Document #: 4739.15720.II240011

Company Name & Address: **Sigma-Aldrich Corporation** 6000 N. Teutonia Avenue Milwaukee, Wisconsin 53209 USA

Plant Name & Address: **Aldrich Chemical Company, LLC** 5485 County Road V Sheboygan Falls, Wisconsin 53085 USA

Product Name	Product Code	Halal-ID	Product Certificate #
1043. SCLAREOL NATURAL	W450210	D23347	HC-24SI4Q48
1044. S-METHYL THIOACETATE, NATURAL, 96%, FG	W387619	A14909	HC-24SIBP68
1045. SODIUM ALGINATE	W201502	C36273	HC-24SIC551
1046. SODIUM BENZOATE 99%, FCC, FG	W302503	B38553	HC-24SINC33
1047. SODIUM CITRATE DIHYDRATE 99%, FG	W302600	B16352	HC-24SIR285
1048. SODIUM PROPIONATE	W518905	C42601	HC-24SIEM23
1049. SOYBEAN OIL, CERTIFIED ORGANIC	W530261	C35038	HC-24SIC171
1050. SPEARMINT OIL RECTIFIED, FCC, FG	W303208	A76418	HC-24SI7Z85
1051. SPEARMINT OIL, CERTIFIED ORGANIC (NOP)	W303237	B73405	HC-24SIAL77
1052. STEARIC ACID 95%, FCC, FG	W303518	A71722	HC-24SIB552
1053. STYRAX	W303704	A77797	HC-24SI5V99
1054. SUCCINIC ACID FCC	W502707	B27956	HC-24SIYZ70

Muhammad Munir Chaudry

Muhammad Munir Chaudry, Ph.D.
President



This certificate is valid until **July 31, 2025** and subject to renewal at that time.





المجلس الإسلامي الأمريكي للغذاء و التغذية
THE ISLAMIC FOOD AND NUTRITION COUNCIL OF AMERICA
IFANCA HALAL PRODUCT CERTIFICATE شهادة حلال

This is to certify that the following product(s) have been produced under the supervision of the Islamic Food and Nutrition Council of America (IFANCA). The production facility as well as component ingredients have been reviewed and approved. The product(s) are in compliance with the halal requirements under Islamic laws.

Date: July 23, 2024

Document #: 4739.15720.II240011

Company Name & Address: **Sigma-Aldrich Corporation** 6000 N. Teutonia Avenue Milwaukee, Wisconsin 53209 USA

Plant Name & Address: **Aldrich Chemical Company, LLC** 5485 County Road V Sheboygan Falls, Wisconsin 53085 USA

Product Name	Product Code	Halal-ID	Product Certificate #
1055. SUCCINIC ACID NATURAL	W471912	D23351	HC-24SIVC36
1056. SUCCINIC ACID, >99%, FCC, FG	W471920	B70083	HC-24SISX57
1057. SUCROSE OCTAACETATE 97%, FG	W303801	B19162	HC-24SION03
1058. TANNIC ACID	W304204	C37187	HC-24SIS816
1059. TAURINE 98%, FG	W381306	B49168	HC-24SIUH09
1060. TEA TREE OIL	W390208	A14368	HC-24SI9U65
1061. TEA TREE OIL, CERTIFIED ORGANIC (NOP)	W390215	B70787	HC-24SITO61
1062. TERPINOLENE 90%	W304603	A32150	HC-24SI6H91
1063. TERPINYL ACETATE 95% (MIXTURE OF ISOMERS)	W304700	A69868	HC-24SIFQ41
1064. TERPINYL FORMATE, MIXTURE OF ISOMERS 97%	W305200	A40301	HC-24SIUO42
1065. TETRAHYDRO-4-METHYL-2-(2-METHYL-1-PROPENYL)-2H-PYRAN MIXTURE OF CIS AND TRANS, 98%, FG	W323608	A69454	HC-24SIEQ39

Muhammad Munir Chaudry

Muhammad Munir Chaudry, Ph.D.
President



This certificate is valid until **July 31, 2025** and subject to renewal at that time.





المجلس الإسلامي الأمريكي للغذاء و التغذية
THE ISLAMIC FOOD AND NUTRITION COUNCIL OF AMERICA
IFANCA HALAL PRODUCT CERTIFICATE شهادة حلال

This is to certify that the following product(s) have been produced under the supervision of the Islamic Food and Nutrition Council of America (IFANCA). The production facility as well as component ingredients have been reviewed and approved. The product(s) are in compliance with the halal requirements under Islamic laws.

Date: July 23, 2024

Document #: 4739.15720.II240011

Company Name & Address: **Sigma-Aldrich Corporation** 6000 N. Teutonia Avenue Milwaukee, Wisconsin 53209 USA

Plant Name & Address: **Aldrich Chemical Company, LLC** 5485 County Road V Sheboygan Falls, Wisconsin 53085 USA

Product Name	Product Code	Halal-ID	Product Certificate #
1066. TETRAHYDROFURFURYL ACETATE 97%, FG	W305502	B10410	HC-24SI6245
1067. THEASPIRANE MIXTURE OF CIS AND TRANS, 85%	W377406	B64040	HC-24SI9V13
1068. THIAMINE HYDROCHLORIDE 98%, FCC, FG	W332208	A39965	HC-24SIUS38
1069. THIAZOLE 99%	W361518	A28538	HC-24SIAN59
1070. THYME OIL RED	W306401	A27108	HC-24SIBE43
1071. THYME OIL WHITE, FCC	W306509	B82988	HC-24SI8V48
1072. THYME OIL, WHITE, CERTIFIED ORGANIC (NOP)	W306540	A65315	HC-24SI8J08
1073. THYMOL 99%, FCC	W306606	B10523	HC-24SI6H47
1074. TOLU BALSAM	W306908	A47231	HC-24SIJK87
1075. TRANS,TRANS-2,4-DECADIENAL 89%, FG	W313505	B53307	HC-24SIQI39
1076. TRANS,TRANS-2,4-DECADIENAL, NATURAL, 89%	W313520	B11855	HC-24SI3S53
1077. TRANS,TRANS-2,4-HEPTANDIENAL 88%	W316407	A79788	HC-24SIDY16

Muhammad Munir Chaudry

Muhammad Munir Chaudry, Ph.D.
President



This certificate is valid until **July 31, 2025** and subject to renewal at that time.



Page 93 of 99



المجلس الإسلامي الأمريكي للغذاء و التغذية

THE ISLAMIC FOOD AND NUTRITION COUNCIL OF AMERICA

IFANCA HALAL PRODUCT CERTIFICATE شهادة حلال

This is to certify that the following product(s) have been produced under the supervision of the Islamic Food and Nutrition Council of America (IFANCA). The production facility as well as component ingredients have been reviewed and approved. The product(s) are in compliance with the halal requirements under Islamic laws.

Date: July 23, 2024

Document #: 4739.15720.II240011

Company Name & Address: **Sigma-Aldrich Corporation** 6000 N. Teutonia Avenue Milwaukee, Wisconsin 53209 USA

Plant Name & Address: **Aldrich Chemical Company, LLC** 5485 County Road V Sheboygan Falls, Wisconsin 53085 USA

Product Name	Product Code	Halal-ID	Product Certificate #
1078. TRANS,TRANS-2,4-UNDECADIENAL, FG	W342203	A77764	HC-24SI5T98
1079. TRANS,TRANS-2,6-NONADIENAL 95%, FG	W376604	A27947	HC-24SI9355
1080. TRANS-2,CIS-6-NONADIEN-1-OL 95%, FCC, FG	W278009	B54480	HC-24SIOQ50
1081. TRANS-2,CIS-6-NONADIENAL MIXTURE OF ISOMERS, 96%, FCC, FG	W337706	A60309	HC-24SID661
1082. TRANS-2-DECENAL	W236608	C29151	HC-24SI9L55
1083. TRANS-2-DODECENAL	W240206	B92006	HC-24SIVS25
1084. TRANS-2-HEPTENAL 95%, FG	W316504	A35650	HC-24SIXJ13
1085. TRANS-2-HEXEN-1-AL 95%, FCC, FG	W256005	A28761	HC-24SIK62
1086. TRANS-2-HEXEN-1-AL NATURAL, 95%, FG	W256110	B26841	HC-24SIKU63
1087. TRANS-2-HEXEN-1-AL, NATURAL	W256009	C14546	HC-24SIAU75
1088. TRANS-2-HEXEN-1-OL 95%, FCC, FG	W256218	A84722	HC-24SIYT45

Muhammad Munir Chaudry

Muhammad Munir Chaudry, Ph.D.
President



This certificate is valid until **July 31, 2025** and subject to renewal at that time.



Page 94 of 99



المجلس الإسلامي الأمريكي للغذاء و التغذية
THE ISLAMIC FOOD AND NUTRITION COUNCIL OF AMERICA
IFANCA HALAL PRODUCT CERTIFICATE شهادة حلال

This is to certify that the following product(s) have been produced under the supervision of the Islamic Food and Nutrition Council of America (IFANCA). The production facility as well as component ingredients have been reviewed and approved. The product(s) are in compliance with the halal requirements under Islamic laws.

Date: July 23, 2024

Document #: 4739.15720.II240011

Company Name & Address: **Sigma-Aldrich Corporation** 6000 N. Teutonia Avenue Milwaukee, Wisconsin 53209 USA

Plant Name & Address: **Aldrich Chemical Company, LLC** 5485 County Road V Sheboygan Falls, Wisconsin 53085 USA

Product Name	Product Code	Halal-ID	Product Certificate #
1089. TRANS-2-HEXEN-1-OL, NATURAL	W256230	C37179	HC-24SI7H03
1090. TRANS-2-HEXENOIC ACID 98%, FG	W316903	B39414	HC-24SI7Q42
1091. TRANS-2-HEXENYL ACETATE 98%, FCC, FG	W256404	A73491	HC-24SICM64
1092. TRANS-2-HEXENYL BUTYRATE 96%	W392618	A33093	HC-24SI6P96
1093. TRANS-2-METHYL-2-BUTENAL SUM OF ISOMERS, 99%, FG	W340707	B55895	HC-24SIP656
1094. TRANS-2-METHYL-2-BUTENOIC ACID 98%, FG	W359904	A46208	HC-24SIWS75
1095. TRANS-2-METHYL-2-PENTENOIC ACID 98%, FCC, FG	W319503	B33642	HC-24SI9J06
1096. TRANS-2-NONEN-1-OL 96%, FCC	W337900	A36868	HC-24SIZY21
1097. TRANS-2-NONENAL 95%, FG	W321303	A92541	HC-24SI6194
1098. TRANS-2-OCTENAL 95%, STABILIZED, FG	W321508	B82989	HC-24SI8H49
1099. TRANS-2-PENTENAL 95%, FG	W321818	B52132	HC-24SIQC35
1100. TRANS-2-TRIDECENAL 95%, FCC, FG	W308218	B12729	HC-24SI2F57

Muhammad Munir Chaudry

Muhammad Munir Chaudry, Ph.D.
President



This certificate is valid until **July 31, 2025** and subject to renewal at that time.





المجلس الإسلامي الأمريكي للغذاء و التغذية
THE ISLAMIC FOOD AND NUTRITION COUNCIL OF AMERICA
IFANCA HALAL PRODUCT CERTIFICATE شهادة حلال

This is to certify that the following product(s) have been produced under the supervision of the Islamic Food and Nutrition Council of America (IFANCA). The production facility as well as component ingredients have been reviewed and approved. The product(s) are in compliance with the halal requirements under Islamic laws.

Date: July 23, 2024

Document #: 4739.15720.II240011

Company Name & Address: **Sigma-Aldrich Corporation** 6000 N. Teutonia Avenue Milwaukee, Wisconsin 53209 USA

Plant Name & Address: **Aldrich Chemical Company, LLC** 5485 County Road V Sheboygan Falls, Wisconsin 53085 USA

Product Name	Product Code	Halal-ID	Product Certificate #
1101. TRANS-2-UNDECENAL 95%, FG	W342300	B83891	HC-24SI9D56
1102. Trans-3-Hexen-1-ol	W435600	C29019	HC-24SIAF50
1103. TRANS-3-HEXENOIC ACID 98%, FG	W317004	A48487	HC-24SIJ892
1104. TRANS-3-OCTEN-2-ONE 98%	W341606	B14903	HC-24SIZD75
1105. TRANS-ANETHOLE	W208604	C54811	HC-24SIX709
1106. TRANS-CINNAMALDEHYDE 98%, FCC, FG	W228605	B63289	HC-24SIE305
1107. TRANS-CINNAMIC ACID 99%, FG	W228818	B65241	HC-24SIAW24
1108. TRANS-CINNAMIC ACID NATURAL, 99%, FCC, FG	W228826	B83720	HC-24SI5153
1109. TRANS-CINNAMYL BUTYRATE 96%, FCC	W229601	B69260	HC-24SI4949
1110. TRANS-CINNAMYL PROPIONATE	W230103	C56639	HC-24SI6715
1111. Triacetin	W200712	A70433	HC-24SIFR44
1112. TRIACETIN 99%, FCC, FG	W200700	B13270	HC-24SI4C63

Muhammad Munir Chaudry

Muhammad Munir Chaudry, Ph.D.
President



This certificate is valid until **July 31, 2025** and subject to renewal at that time.





المجلس الإسلامي الأمريكي للغذاء و التغذية
THE ISLAMIC FOOD AND NUTRITION COUNCIL OF AMERICA
IFANCA HALAL PRODUCT CERTIFICATE شهادة حلال

This is to certify that the following product(s) have been produced under the supervision of the Islamic Food and Nutrition Council of America (IFANCA). The production facility as well as component ingredients have been reviewed and approved. The product(s) are in compliance with the halal requirements under Islamic laws.

Date: July 23, 2024

Document #: 4739.15720.II240011

Company Name & Address: **Sigma-Aldrich Corporation** 6000 N. Teutonia Avenue Milwaukee, Wisconsin 53209 USA

Plant Name & Address: **Aldrich Chemical Company, LLC** 5485 County Road V Sheboygan Falls, Wisconsin 53085 USA

Product Name	Product Code	Halal-ID	Product Certificate #
1113. TRIBUTYRIN 97%, FG	W222305	B70732	HC-24SITC60
1114. Tridecanal	W433500	C41925	HC-24SI6V80
1115. TRIETHYL CITRATE 99%, FCC	W308307	A65862	HC-24SI8912
1116. TRIETHYL CITRATE, NATURAL, 99%	W308302	A37127	HC-24SIYC23
1117. TRIMETHYLAMINE SOLUTION 25 WT. % IN H2O, FG	W324125	C87828	HC-24SIZN50
1118. TRIPROPIONIN 97.1%, FCC, FG	W328618	A41552	HC-24SIZ152
1119. TRITHIOACETONE 99%, FG	W347507	A31678	HC-24SI7K85
1120. UNDECANAL FCC, 96%	W309206	A16787	HC-24SIHN81
1121. UNDECYL ALCOHOL 97%, FG	W309702	A70726	HC-24SIFR47
1122. UNDECYLENIC ACID 95%, FG	W324701	B35186	HC-24SIU116
1123. UNDECYLENIC ACID, 95%, FG	W324721	A12864	HC-24SI8A54
1124. UNDECYLENIC ACID, NATURAL	W324720	C20193	HC-24SIBH51

Muhammad Munir Chaudry

Muhammad Munir Chaudry, Ph.D.
President



This certificate is valid until **July 31, 2025** and subject to renewal at that time.





المجلس الإسلامي الأمريكي للغذاء و التغذية
THE ISLAMIC FOOD AND NUTRITION COUNCIL OF AMERICA
IFANCA HALAL PRODUCT CERTIFICATE شهادة حلال

This is to certify that the following product(s) have been produced under the supervision of the Islamic Food and Nutrition Council of America (IFANCA). The production facility as well as component ingredients have been reviewed and approved. The product(s) are in compliance with the halal requirements under Islamic laws.

Date: July 23, 2024

Document #: 4739.15720.II240011

Company Name & Address: **Sigma-Aldrich Corporation** 6000 N. Teutonia Avenue Milwaukee, Wisconsin 53209 USA

Plant Name & Address: **Aldrich Chemical Company, LLC** 5485 County Road V Sheboygan Falls, Wisconsin 53085 USA

Product Name	Product Code	Halal-ID	Product Certificate #
1125. VALENCENE NATURAL, 65%	W344303	B19306	HC-24SIQY06
1126. VALERALDEHYDE 97%, FG	W309818	A91351	HC-24SI9283
1127. VALERIC ACID 99%, FCC	W310107	B82881	HC-24SI8847
1128. VALERIC ACID NATURAL	W310162	D12700	HC-24SI8F50
1129. VANILLIC ACID 97%, FG	W398802	A36895	HC-24SIZC22
1130. VANILLIN 97%, FCC, FG	W310700	A90960	HC-24SIA781
1131. VANILLIN ACETATE 98%, FG	W310808	A52089	HC-24SIGO12
1132. VANILLIN ISOBUTYRATE 98%, FG	W375403	B30059	HC-24SICH84
1133. VANILLIN NATURAL, 97%, FCC, FG	W310727	B80637	HC-24SIZE28
1134. VANILLYL BUTYL ETHER	W379620	C39752	HC-24SI9L12
1135. VANILLYL BUTYL ETHER, NATURAL	W379601	C36291	HC-24SI3W84
1136. VANILLYL ETHYL ETHER NATURAL (US)	W381512	D23340	HC-24SIY962

Muhammad Munir Chaudry

Muhammad Munir Chaudry, Ph.D.
President



This certificate is valid until **July 31, 2025** and subject to renewal at that time.





المجلس الإسلامي الأمريكي للغذاء و التغذية
THE ISLAMIC FOOD AND NUTRITION COUNCIL OF AMERICA
IFANCA HALAL PRODUCT CERTIFICATE شهادة حلال

This is to certify that the following product(s) have been produced under the supervision of the Islamic Food and Nutrition Council of America (IFANCA). The production facility as well as component ingredients have been reviewed and approved. The product(s) are in compliance with the halal requirements under Islamic laws.

Date: July 23, 2024

Document #: 4739.15720.II240011

Company Name & Address: **Sigma-Aldrich Corporation** 6000 N. Teutonia Avenue Milwaukee, Wisconsin 53209 USA

Plant Name & Address: **Aldrich Chemical Company, LLC** 5485 County Road V Sheboygan Falls, Wisconsin 53085 USA

Product Name	Product Code	Halal-ID	Product Certificate #
1137. VANILLYLACETONE 96%, FG	W312401	A39925	HC-24SIVP37
1138. VANILLYLACETONE NATURAL (US)	W312420	D12701	HC-24SI2B32
1139. VERATRALDEHYDE 98%, FG	W310905	B77979	HC-24SI9Y14
1140. YLANG-YLANG OIL EXTRA, FG	W311936	A67595	HC-24SIGR21
1141. YLANG-YLANG OIL, EXTRA, CERTIFIED ORGANIC (NOP)	W311942	B27002	HC-24SIKF65

Muhammad Munir Chaudry

Muhammad Munir Chaudry, Ph.D.
President



This certificate is valid until **July 31, 2025** and subject to renewal at that time.

